

GOMOS Daily Report 24-JAN-2009

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	28JAN2009 05:36:32
Data source version	GOMOS/5.00
Start time of products	24JAN2009 00:01:24
Stop time of products	24JAN2009 02:48:04
Store outputs in DB	Yes
Nb of level 1b prods	49
Nb of prods with errors	1

2. Summary of products arrived in PCF (Product Control Facility)

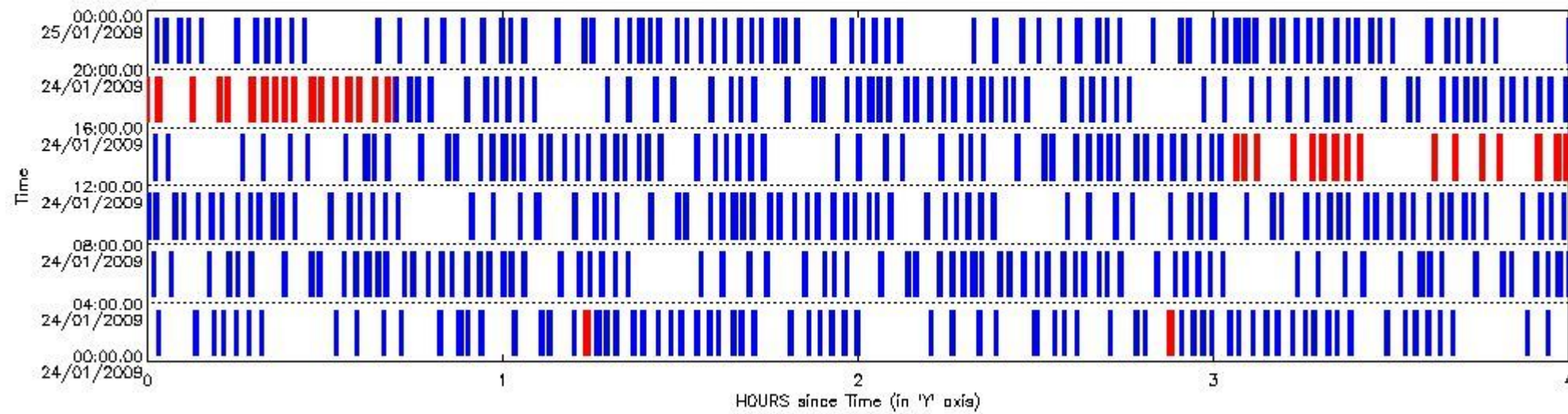
2.1 Level 0 products arrived in PCF (see template [here](#))

2.2 Plot of mission plan versus Level 0 production arrived in PCF during reporting period

Red segments are missing products.

Blue segments are available products.

Green segments are calibration measurements (not available products to users).



2.3 Summary of missing occultations (red segments in previous plot)

UTC start time	Star name	Star ID	Orbit
24-JAN-2009 01:13:39	BetLup	109	36085
24-JAN-2009 02:52:14	GamLup	131	36086
24-JAN-2009 15:03:19	21EpsCMa	23	36094
24-JAN-2009 15:04:42	24Omi2CMa	179	36094
24-JAN-2009 15:06:52	9AlpCMa	1	36094
24-JAN-2009 15:12:59	10AlpCMi	8	36094
24-JAN-2009 15:16:11	24GamGem	44	36094
24-JAN-2009 15:17:58	13MuGem	151	36094
24-JAN-2009 15:19:59	78BetGem	17	36094
24-JAN-2009 15:22:12	37TheAur	107	36094
24-JAN-2009 15:24:20	34BetAur	42	36094
24-JAN-2009 15:36:50	1AlpUMi	49	36094
24-JAN-2009 15:40:20	7BetUMi	60	36094
24-JAN-2009 15:44:54	14EtaDra	119	36094
24-JAN-2009 15:47:49	23BetDra	130	36094

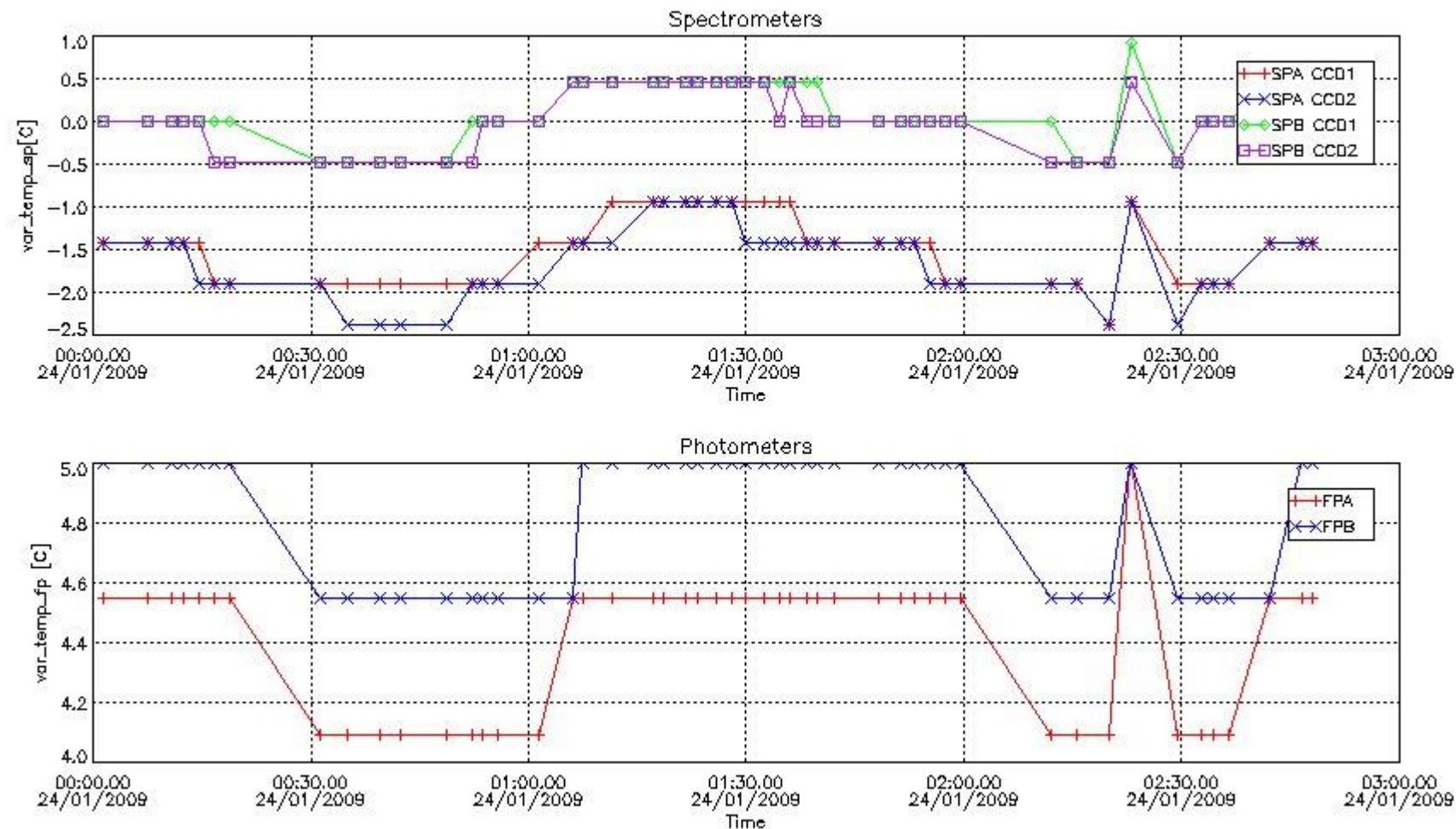
24-JAN-2009 15:54:16	40ZetHer	133	36094
24-JAN-2009 15:57:37	27BetHer	127	36094
24-JAN-2009 15:59:14	55AlpOph	59	36094
24-JAN-2009 16:01:20	60BetOph	126	36094
24-JAN-2009 16:07:02	13ZetOph	98	36094
24-JAN-2009 16:11:32	21AlpSco	16	36094
24-JAN-2009 16:12:58	26EpsSco	75	36094
24-JAN-2009 16:17:07	GamLup	131	36094
24-JAN-2009 16:19:09	BetLup	109	36094
24-JAN-2009 16:20:57	DSA1027	0	36095
24-JAN-2009 16:22:40	Alp1Cen	4	36095
24-JAN-2009 16:24:11	EpsCen	77	36095
24-JAN-2009 16:27:14	Alp1Cru	12	36095
24-JAN-2009 16:28:48	DelCen	99	36095
24-JAN-2009 16:31:16	BetCar	29	36095
24-JAN-2009 16:33:27	lotCar	71	36095
24-JAN-2009 16:35:15	DelVel	46	36095
24-JAN-2009 16:37:52	Gam2Vel	34	36095
24-JAN-2009 16:39:58	ZetPup	70	36095
24-JAN-2009 16:41:27	PiPup	117	36095

2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090124_000124_000000452075_00460_36085_9761.N1	24-JAN-2009 00:01:24	Straylight	44.500	1	9Alp CMa	-1.4400	11000.	89	36085	No
2	GOM_TRA_1PNPDE20090124_000733_000000502075_00460_36085_9762.N1	24-JAN-2009 00:07:33	Twilight	50.000	8	10Alp CMi	0.40000	6500.0	100	36085	No
3	GOM_TRA_1PNPDE20090124_001045_000000382075_00460_36085_9763.N1	24-JAN-2009 00:10:45	Bright	37.500	44	24Gam Gem	1.9280	11000.	75	36085	No
4	GOM_TRA_1PNPDE20090124_001231_000000382075_00460_36085_9764.N1	24-JAN-2009 00:12:31	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	36085	No
5	GOM_TRA_1PNPDE20090124_001435_000000412075_00460_36085_9765.N1	24-JAN-2009 00:14:35	Bright	41.000	17	78Bet Gem	1.1610	4500.0	82	36085	No
6	GOM_TRA_1PNPDE20090124_001645_000000352075_00460_36085_9766.N1	24-JAN-2009 00:16:45	Bright	34.500	107	37The Aur	2.6490	11000.	69	36085	No
7	GOM_TRA_1PNPDE20090124_001853_000000352075_00460_36085_9767.N1	24-JAN-2009 00:18:53	Bright	34.500	42	34Bet Aur	1.9000	10200.	69	36085	No
8	GOM_TRA_1PNPDE20090124_003123_000000362075_00460_36085_9768.N1	24-JAN-2009 00:31:23	Bright	35.500	49	1Alp UMi	1.9900	6300.0	71	36085	No
9	GOM_TRA_1PNPDE20090124_003456_000000392075_00460_36085_9769.N1	24-JAN-2009 00:34:56	Bright	38.500	60	7Bet UMi	2.0810	3950.0	77	36085	No
10	GOM_TRA_1PNPDE20090124_003929_000000402075_00460_36085_9770.N1	24-JAN-2009 00:39:29	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	36085	No
11	GOM_TRA_1PNPDE20090124_004222_000000372075_00460_36085_9771.N1	24-JAN-2009 00:42:22	Bright	37.000	130	23Bet Dra	2.7990	5800.0	74	36085	No
12	GOM_TRA_1PNPDE20090124_004848_000000582075_00460_36085_9772.N1	24-JAN-2009 00:48:48	Bright	58.000	133	40Zet Her	2.8070	6000.0	116	36085	No
13	GOM_TRA_1PNPDE20090124_005207_000000592075_00460_36085_9773.N1	24-JAN-2009 00:52:07	Bright	59.000	127	27Bet Her	2.7810	4700.0	118	36085	No
14	GOM_TRA_1PNPDE20090124_005345_000000352075_00460_36085_9774.N1	24-JAN-2009 00:53:45	Bright	35.000	59	55Alp Oph	2.0800	8900.0	70	36085	No
15	GOM_TRA_1PNPDE20090124_005552_000000522075_00460_36085_9775.N1	24-JAN-2009 00:55:52	Bright	51.500	126	60Bet Oph	2.7700	4250.0	103	36085	No
16	GOM_TRA_1PNPDE20090124_010131_000000462075_00460_36085_9776.N1	24-JAN-2009 01:01:31	Twilight	45.500	98	13Zet Oph	2.5710	30000.	91	36085	No
17	GOM_TRA_1PNPDE20090124_010601_000000482075_00460_36085_9937.N1	24-JAN-2009 01:06:01	Twilight	47.500	16	21Alp Sco	1.0200	3000.0	95	36085	No
18	GOM_TRA_1PNPDE20090124_010728_000000442075_00460_36085_9938.N1	24-JAN-2009 01:07:28	Dark	44.000	75	26Eps Sco	2.2910	4250.0	88	36085	No
19	GOM_TRA_1PNPDE20090124_011135_000000432075_00460_36085_9939.N1	24-JAN-2009 01:11:35	Dark	42.500	131	Gam Lup	2.8000	26000.	85	36085	No
20	GOM_TRA_1PNPDE20090124_011710_000000442075_00461_36086_9940.N1	24-JAN-2009 01:17:10	Dark	44.000	4	Alp1Cen	-0.010000	5800.0	88	36086	No
21	GOM_TRA_1PNPDE20090124_011838_000000422075_00461_36086_9941.N1	24-JAN-2009 01:18:38	Dark	42.000	77	Eps Cen	2.3030	28000.	84	36086	No
22	GOM_TRA_1PNPDE20090124_012143_000000482075_00461_36086_9942.N1	24-JAN-2009 01:21:43	Dark	47.500	12	Alp1Cru	0.77500	30000.	95	36086	No
23	GOM_TRA_1PNPDE20090124_012314_000000442075_00461_36086_9943.N1	24-JAN-2009 01:23:14	Dark	43.500	99	Del Cen	2.5750	26000.	87	36086	No
24	GOM_TRA_1PNPDE20090124_012547_000000382075_00461_36086_9944.N1	24-JAN-2009 01:25:47	Dark	38.000	29	Bet Car	1.6720	10200.	76	36086	No
25	GOM_TRA_1PNPDE20090124_012757_000000402075_00461_36086_9945.N1	24-JAN-2009 01:27:57	Dark	40.000	71	lot Car	2.2460	7700.0	80	36086	No
26	GOM_TRA_1PNPDE20090124_012946_000000422075_00461_36086_9946.N1	24-JAN-2009 01:29:46	Dark	41.500	46	Del Vel	1.9540	10600.	83	36086	No
27	GOM_TRA_1PNPDE20090124_013222_000000442075_00461_36086_9947.N1	24-JAN-2009 01:32:22	Dark	44.000	34	Gam2Vel	1.7930	23000.	88	36086	No
28	GOM_TRA_1PNPDE20090124_013429_000000432075_00461_36086_9948.N1	24-JAN-2009 01:34:29	Straylight	42.500	70	Zet Pup	2.2460	39000.	85	36086	No
29	GOM_TRA_1PNPDE20090124_013558_000000462075_00461_36086_9949.N1	24-JAN-2009 01:35:58	Straylight	45.500	117	Pi Pup	2.7060	3800.0	91	36086	No
30	GOM_TRA_1PNPDE20090124_013827_000000432075_00461_36086_9950.N1	24-JAN-2009 01:38:27	Straylight	43.000	23	21Eps CMa	1.5020	26000.	86	36086	No
31	GOM_TRA_1PNPDE20090124_013950_000000402075_00461_36086_9951.N1	24-JAN-2009 01:39:50	Straylight	40.000	179	24Omi2CMa	3.0320	24000.	80	36086	No
32	GOM_TRA_1PNPDE20090124_014200_000000432075_00461_36086_9952.N1	24-JAN-2009 01:42:00	Straylight	42.500	1	9Alp CMa	-1.4400	11000.	85	36086	No
33	GOM_TRA_1PNPDE20090124_014809_000000512075_00461_36086_9953.N1	24-JAN-2009 01:48:09	Twilight	51.000	8	10Alp CMi	0.40000	6500.0	102	36086	No
34	GOM_TRA_1PNPDE20090124_015120_000000402075_00461_36086_9954.N1	24-JAN-2009 01:51:20	Bright	39.500	44	24Gam Gem	1.9280	11000.	79	36086	No

35	GOM_TRA_1PNPDE20090124_015307_000000382075_00461_36086_9955.N1	24-JAN-2009 01:53:07	Bright	37.500	151	13Mu Gem	2.8900	3000.0	75	36086	No
36	GOM_TRA_1PNPDE20090124_015510_000000432075_00461_36086_9956.N1	24-JAN-2009 01:55:10	Bright	43.000	17	78Bet Gem	1.1610	4500.0	86	36086	No
37	GOM_TRA_1PNPDE20090124_015721_000000342075_00461_36086_9957.N1	24-JAN-2009 01:57:21	Bright	34.000	107	37The Aur	2.6490	11000.	68	36086	No
38	GOM_TRA_1PNPDE20090124_015929_000000362075_00461_36086_9958.N1	24-JAN-2009 01:59:29	Bright	35.500	42	34Bet Aur	1.9000	10200.	71	36086	No
39	GOM_TRA_1PNPDE20090124_021159_000000342075_00461_36086_9959.N1	24-JAN-2009 02:11:59	Bright	34.000	49	1Alp UMi	1.9900	6300.0	68	36086	No
40	GOM_TRA_1PNPDE20090124_021531_000000392075_00461_36086_9960.N1	24-JAN-2009 02:15:31	Bright	39.000	60	7Bet UMi	2.0810	3950.0	78	36086	No
41	GOM_TRA_1PNPDE20090124_022004_000000402075_00461_36086_9961.N1	24-JAN-2009 02:20:04	Bright	39.500	119	14Eta Dra	2.7270	4700.0	79	36086	No
42	GOM_TRA_1PNPDE20090124_022258_000000362075_00461_36086_0063.N1	24-JAN-2009 02:22:58	Bright	35.500	130	23Bet Dra	2.7990	5800.0	71	36086	Yes
43	GOM_TRA_1PNPDE20090124_022924_000000572075_00461_36086_0064.N1	24-JAN-2009 02:29:24	Bright	56.500	133	40Zet Her	2.8070	6000.0	113	36086	No
44	GOM_TRA_1PNPDE20090124_023244_000000462075_00461_36086_0065.N1	24-JAN-2009 02:32:44	Bright	45.500	127	27Bet Her	2.7810	4700.0	91	36086	No
45	GOM_TRA_1PNPDE20090124_023421_000000362075_00461_36086_0066.N1	24-JAN-2009 02:34:21	Bright	35.500	59	55Alp Oph	2.0800	8900.0	71	36086	No
46	GOM_TRA_1PNPDE20090124_023628_000000352075_00461_36086_0067.N1	24-JAN-2009 02:36:28	Bright	34.500	126	60Bet Oph	2.7700	4250.0	69	36086	No
47	GOM_TRA_1PNPDE20090124_024207_000000462075_00461_36086_0068.N1	24-JAN-2009 02:42:07	Twilight	45.500	98	13Zet Oph	2.5710	30000.	91	36086	No
48	GOM_TRA_1PNPDE20090124_024638_000000472075_00461_36086_0069.N1	24-JAN-2009 02:46:38	Twilight	46.500	16	21Alp Sco	1.0200	3000.0	93	36086	No
49	GOM_TRA_1PNPDE20090124_024804_000000442075_00461_36086_0070.N1	24-JAN-2009 02:48:04	Dark	43.500	75	26Eps Sco	2.2910	4250.0	87	36086	No

3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



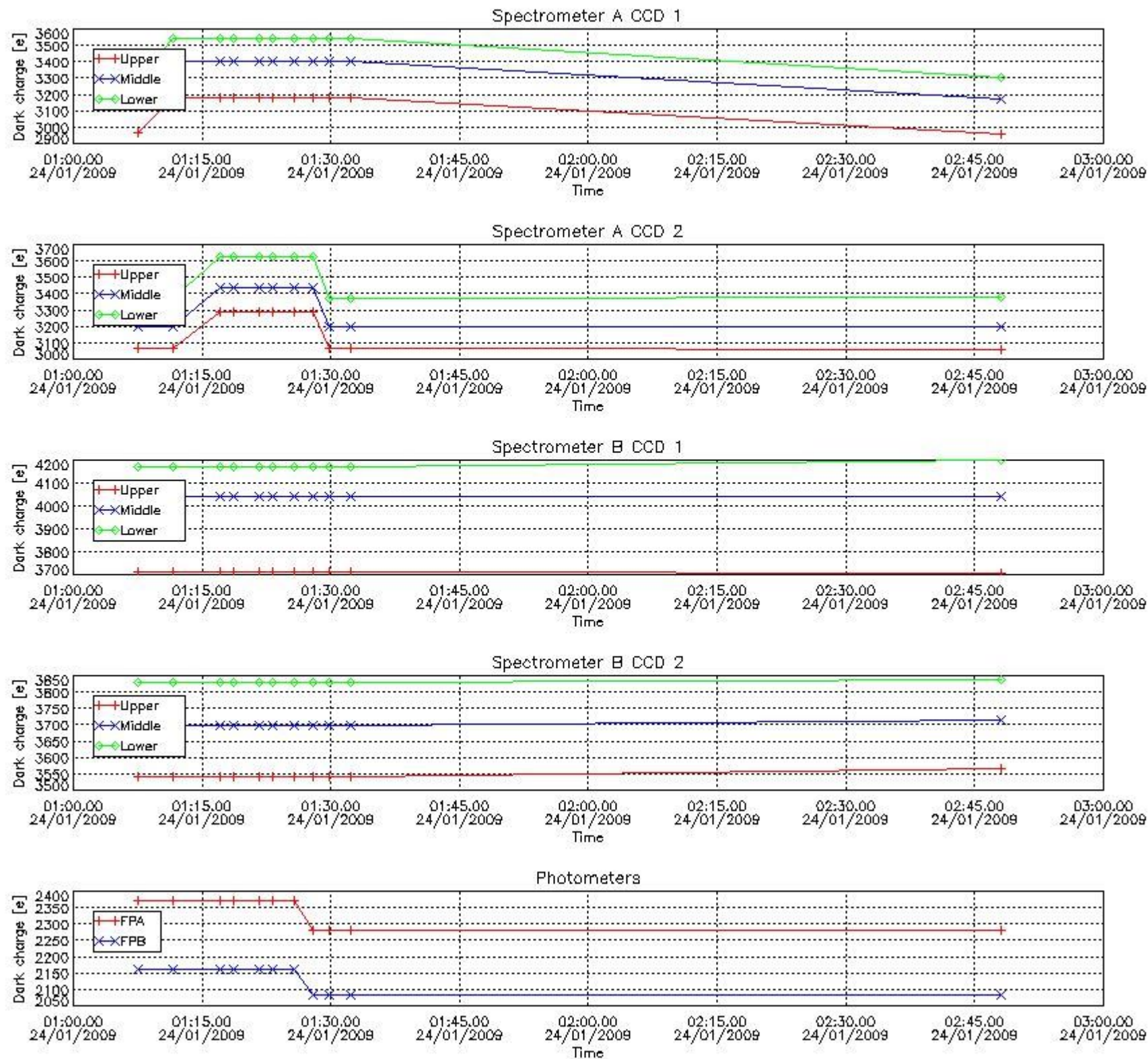
4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 All products used the DSA observation for the DC computation

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used



5. Demodulation flag and quality information monitoring

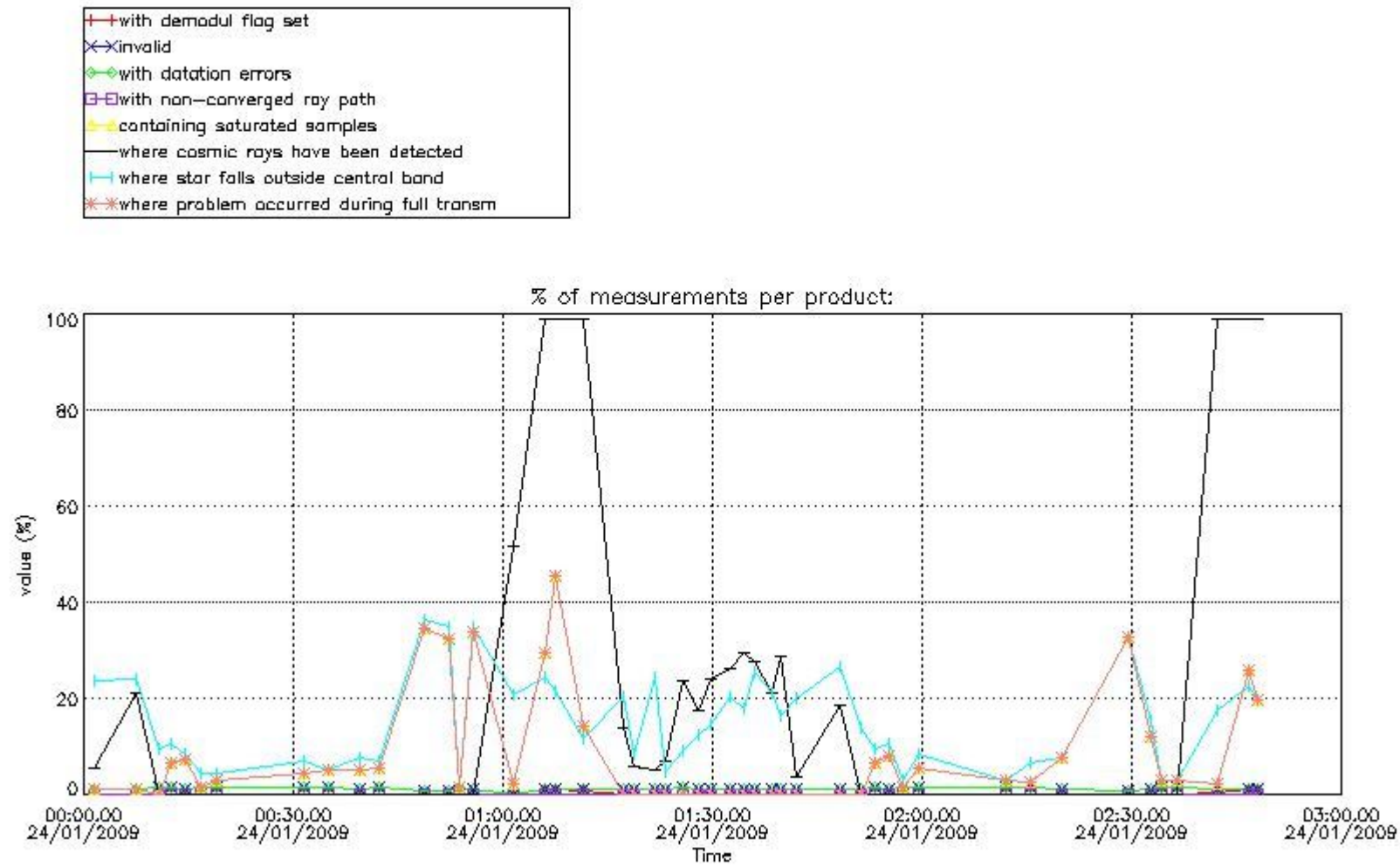
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

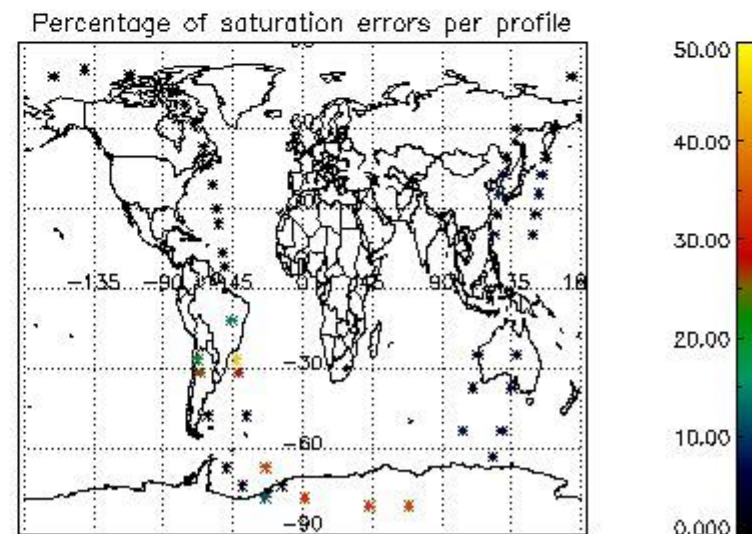
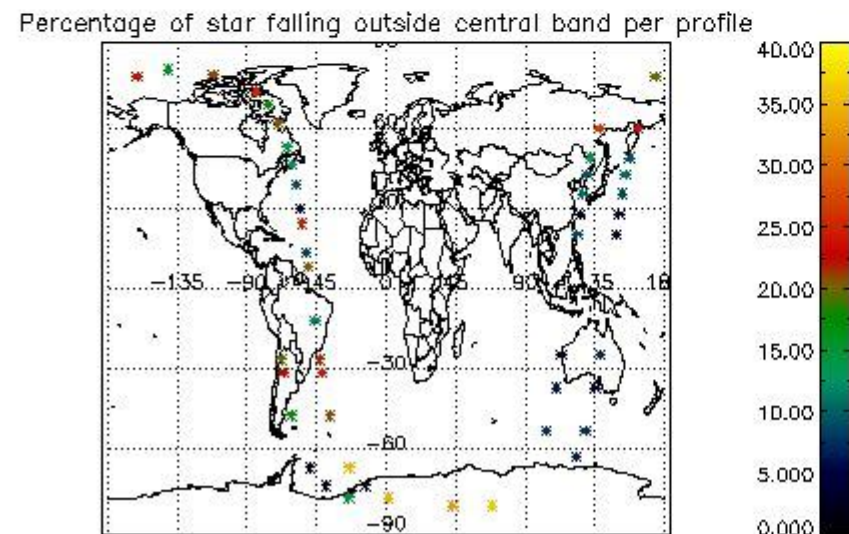
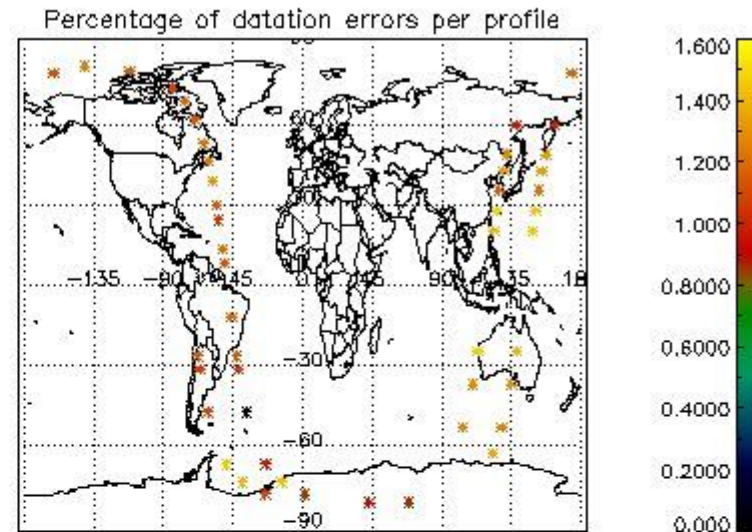
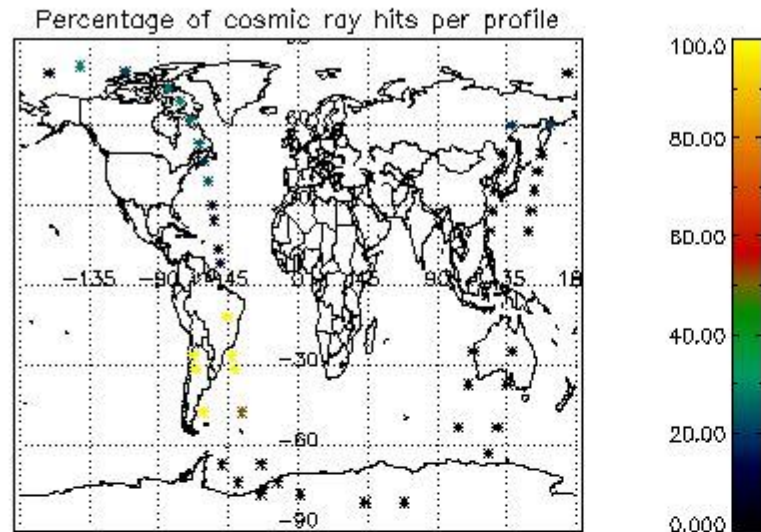
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	25.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)



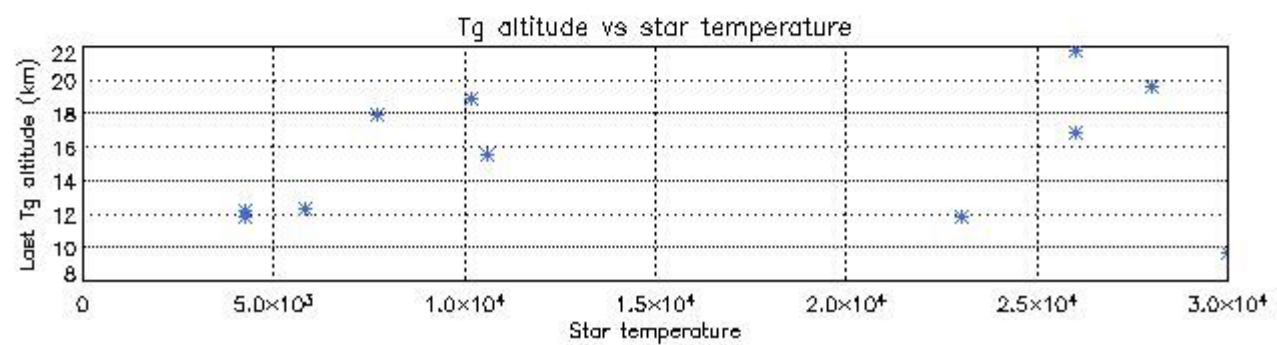
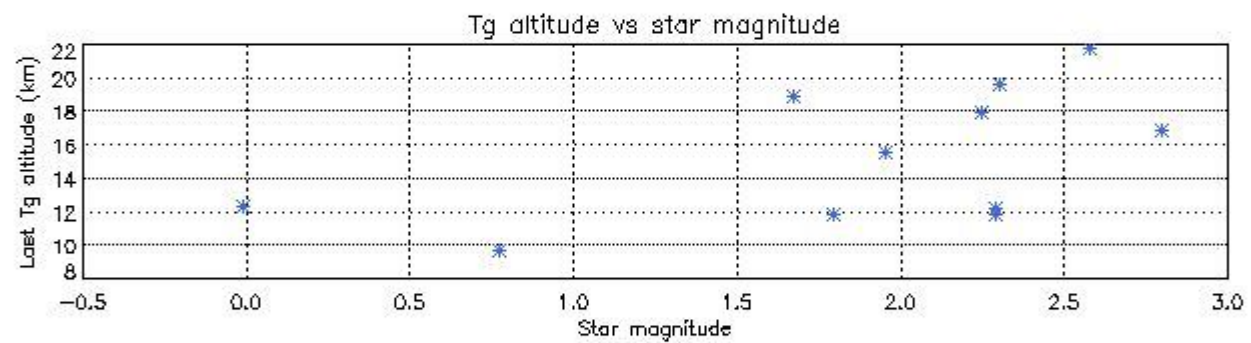
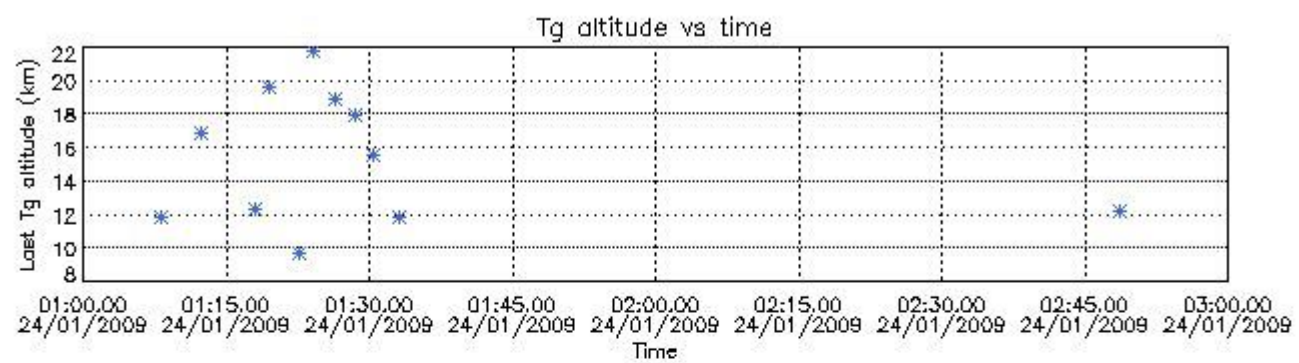
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.313	17.677	10.422
St. deviation:	3.9668	6.4118	0.73211
Maximum:	21.737	24.874	10.940
Minimum:	9.6622	4.0369	9.9045
Number of data:	11.000	25.000	2.0000

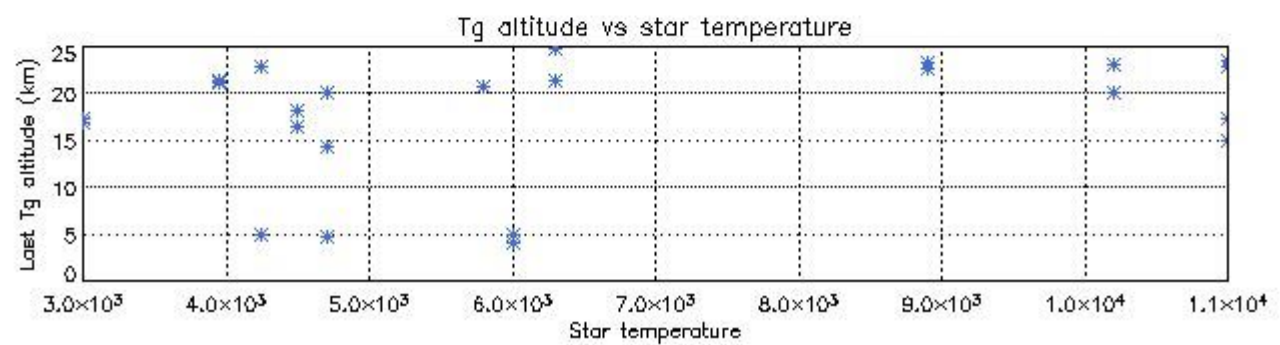
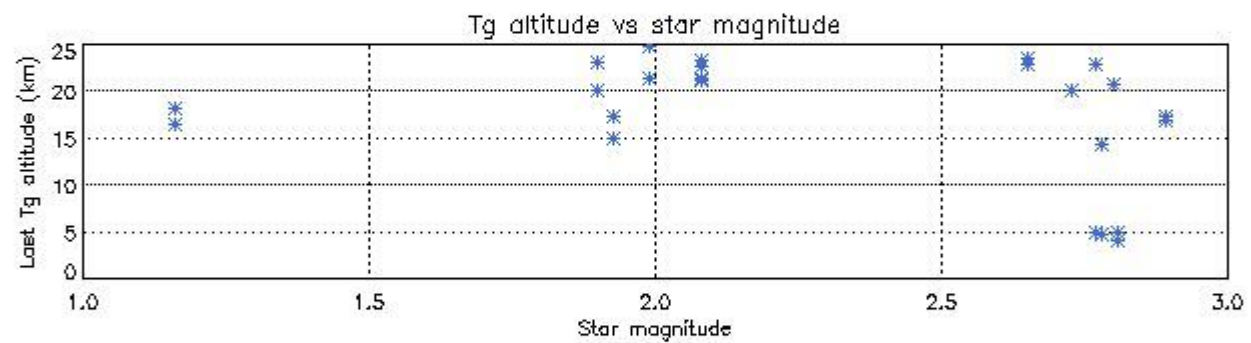
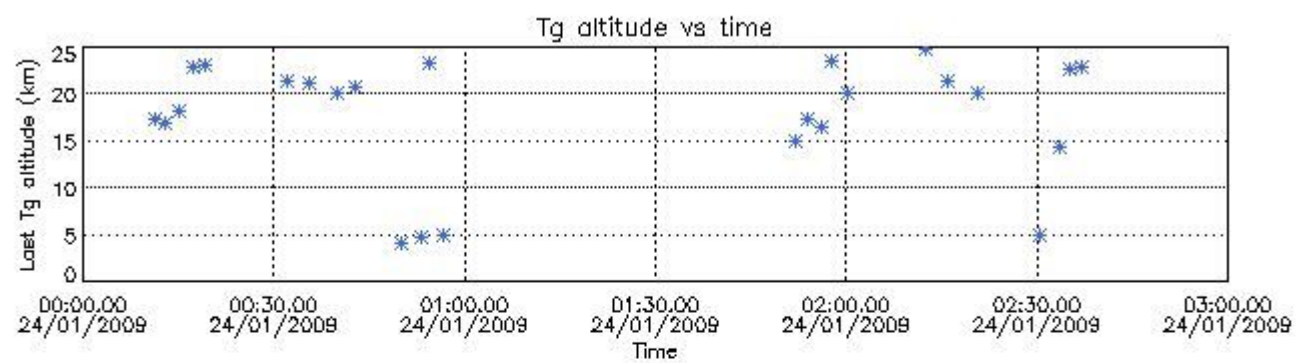
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



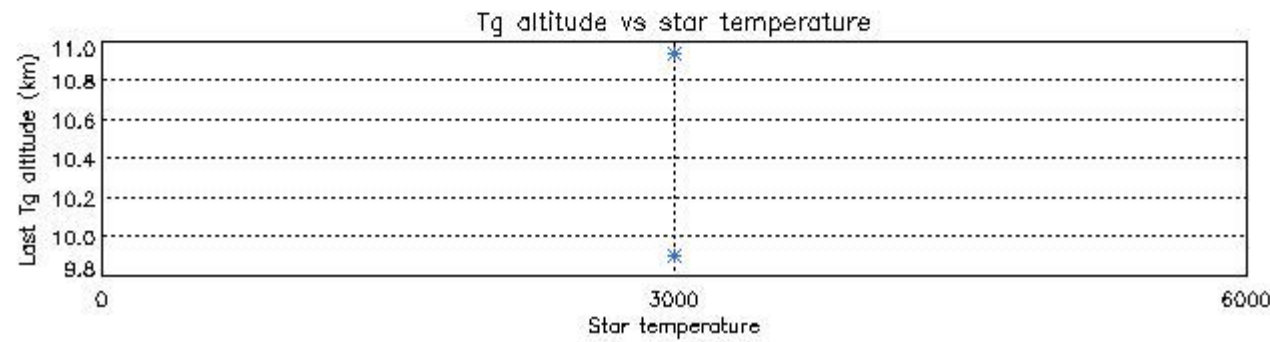
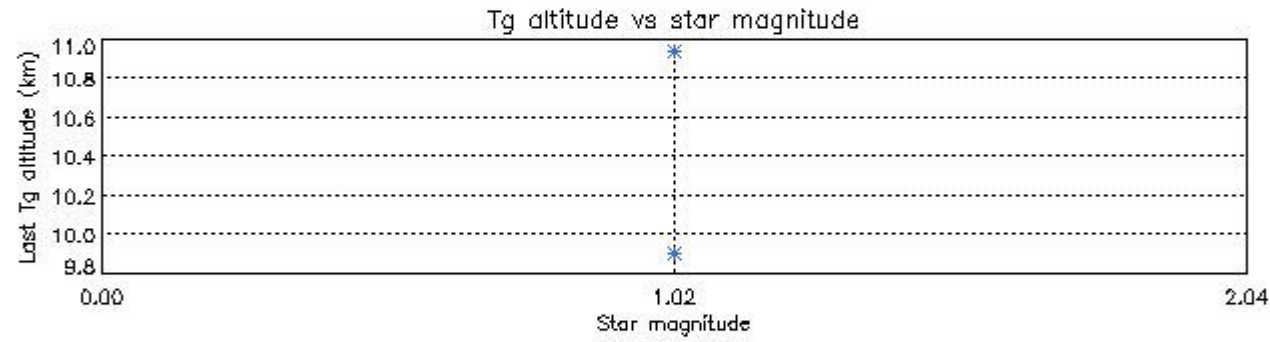
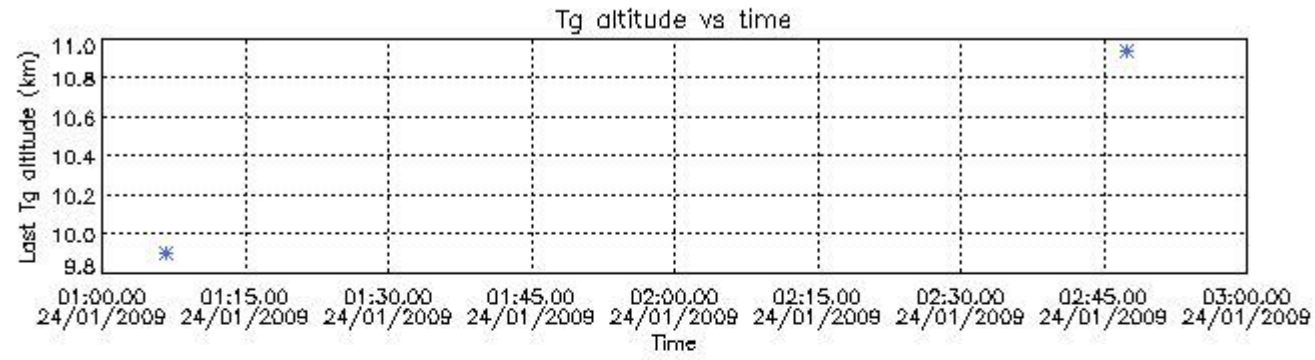
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

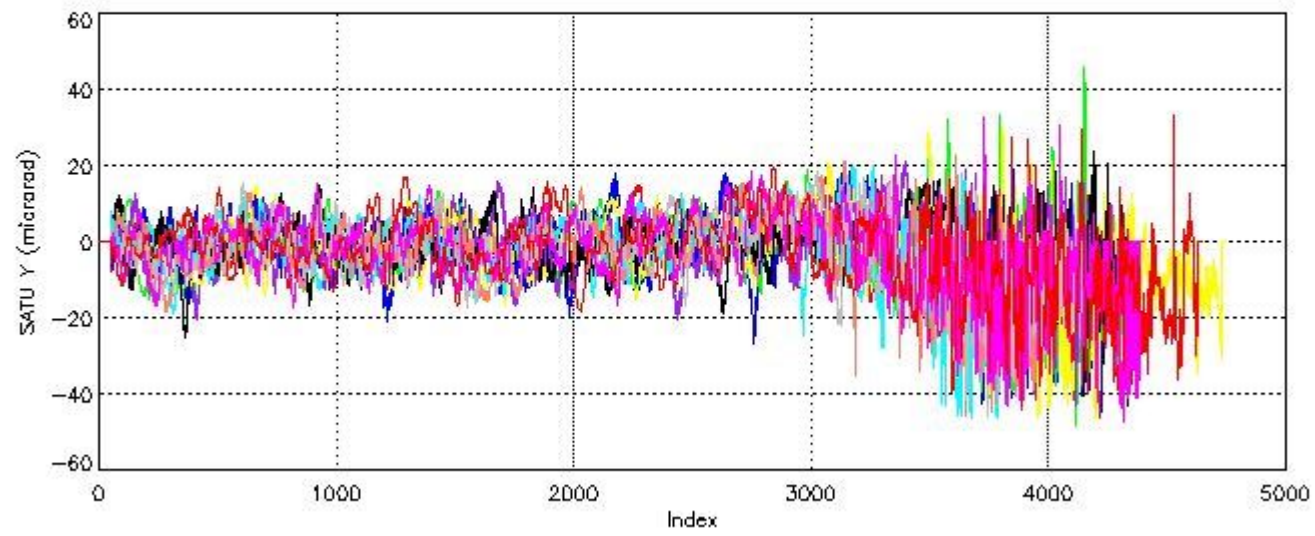
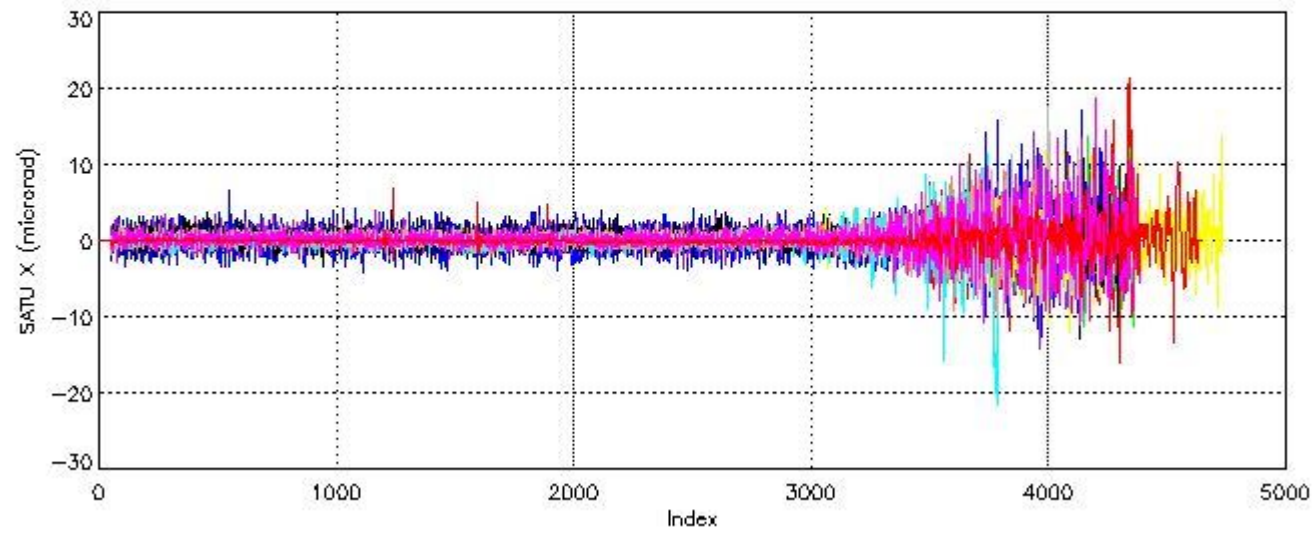


7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main function of the SATU is to detect a star, provide its image position to the science data electronics and to help the pointing function to keep the star image at a fixed position. In tracking mode the SATU data is recorded with a frequency of 100 Hz.

7.1 SATU 'X' and 'Y' axis plots (dark limb)

SATU CCD 'X' and 'Y' axis plots are provided in order to detect any abnormal behaviour of the tracking system. For every occultation (color) the plot should remain stable (with some noise) until we are deep in the atmosphere where big fluctuations are registered due to the refractive effects.



7.2 Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere.

Statistics (in microradians) above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.10151	-1.2204	0.073454	-1.0590
St. deviation:	0.62571	5.7259	0.68853	5.0822
Maximum:	6.6000	15.300	4.3000	16.700
Minimum:	-3.5000	-25.500	-4.5000	-22.700

Number of data:	10500.	10500.	21800.	21800.
-----------------	--------	--------	--------	--------

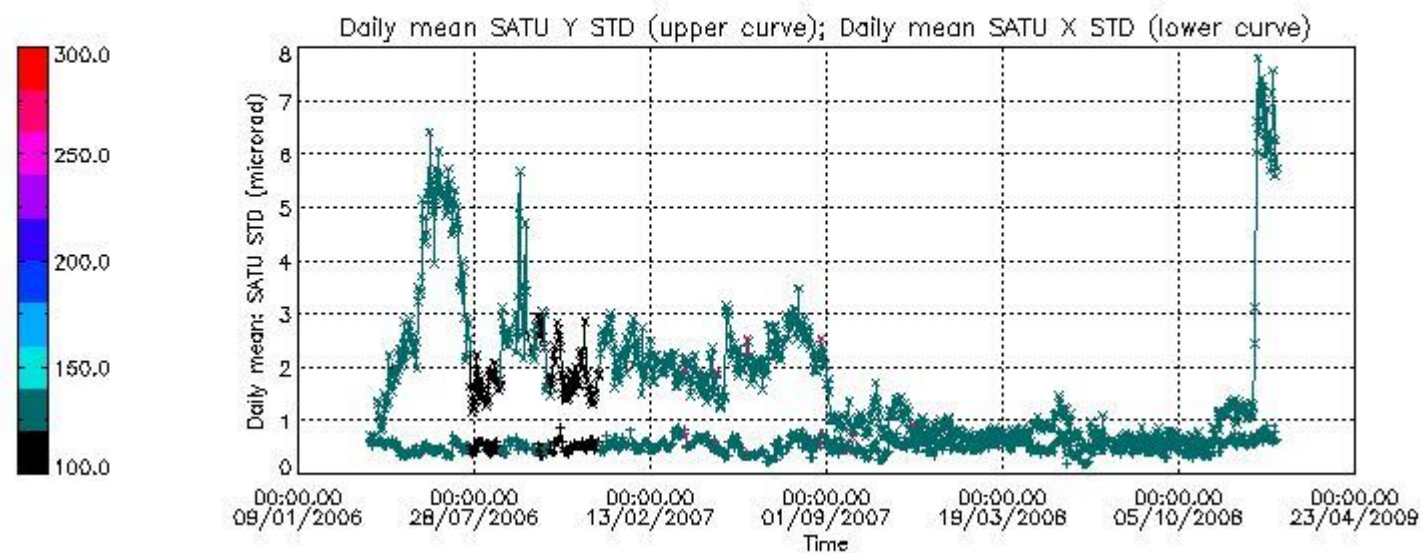
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

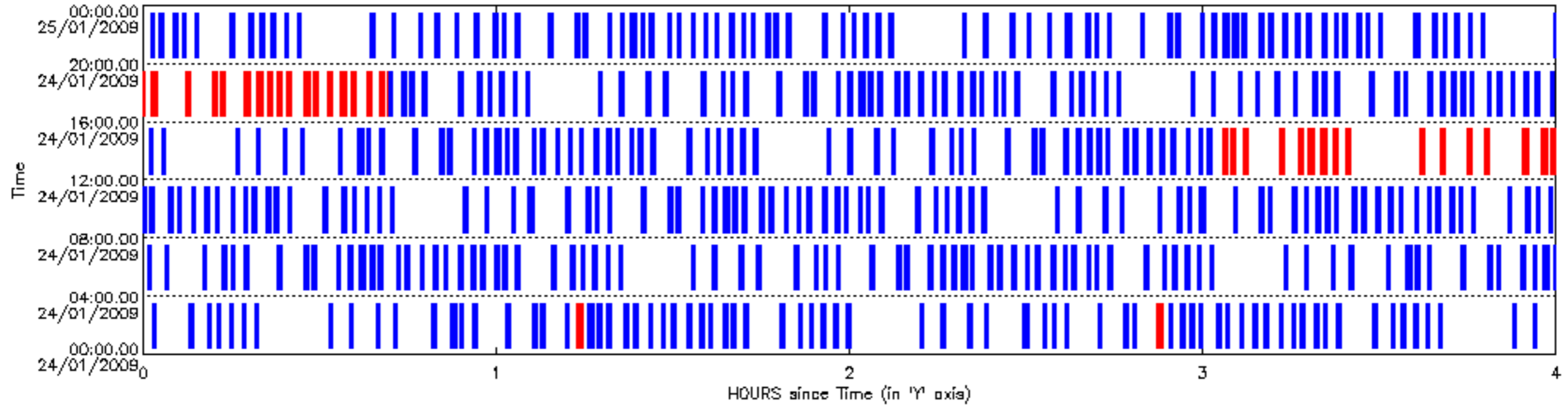
Lower curve: STD of SATU X axis

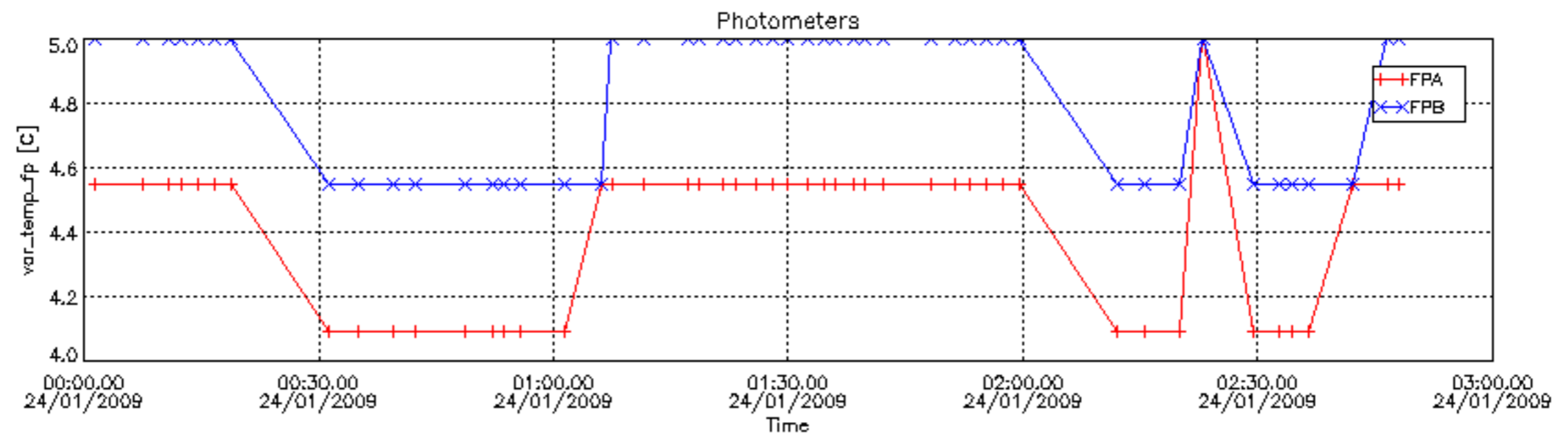
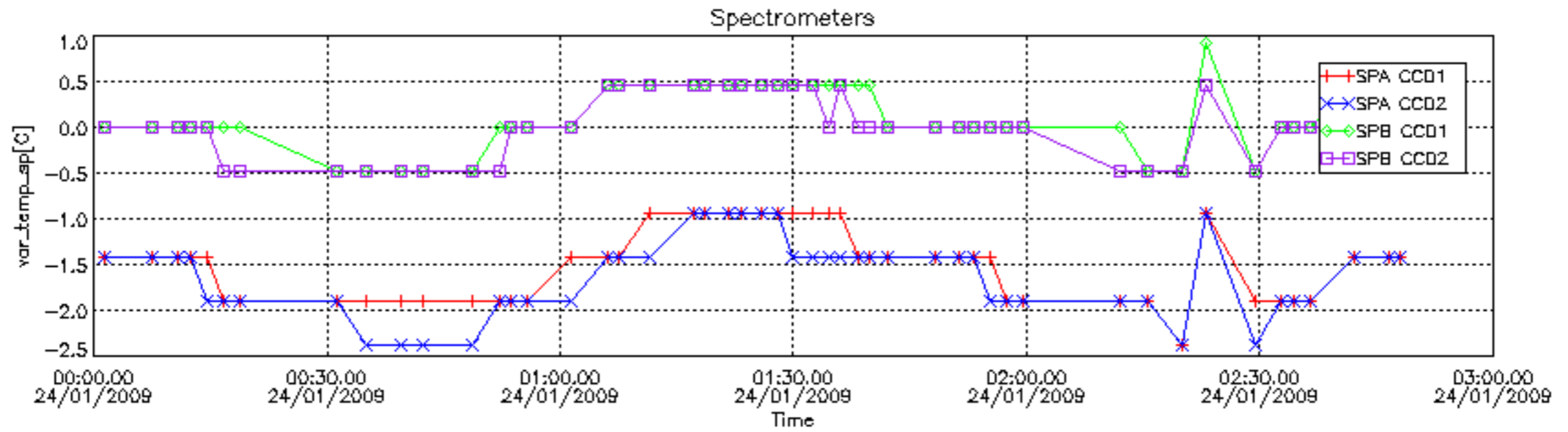


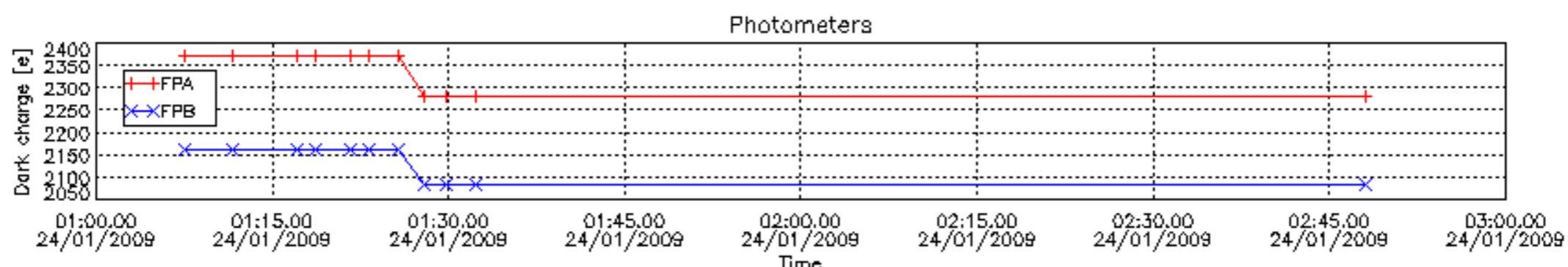
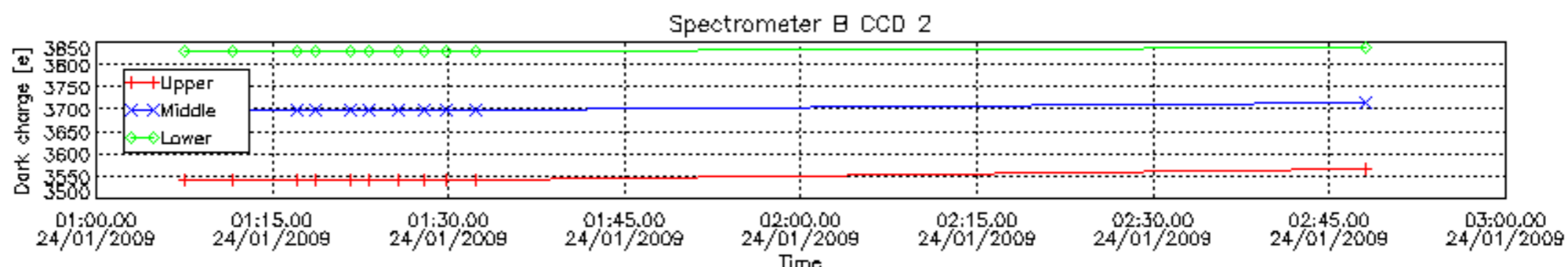
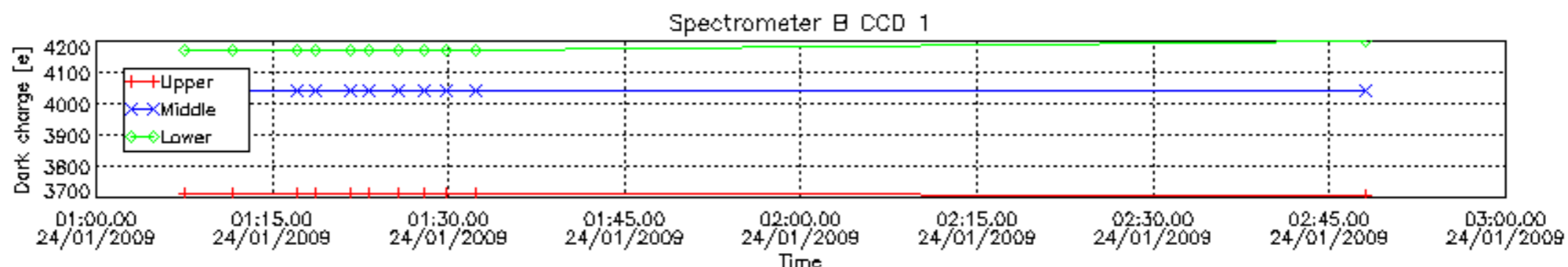
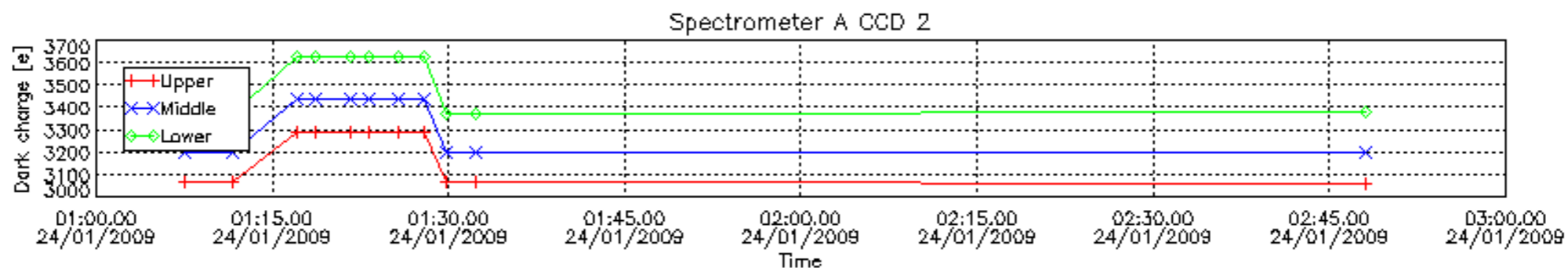
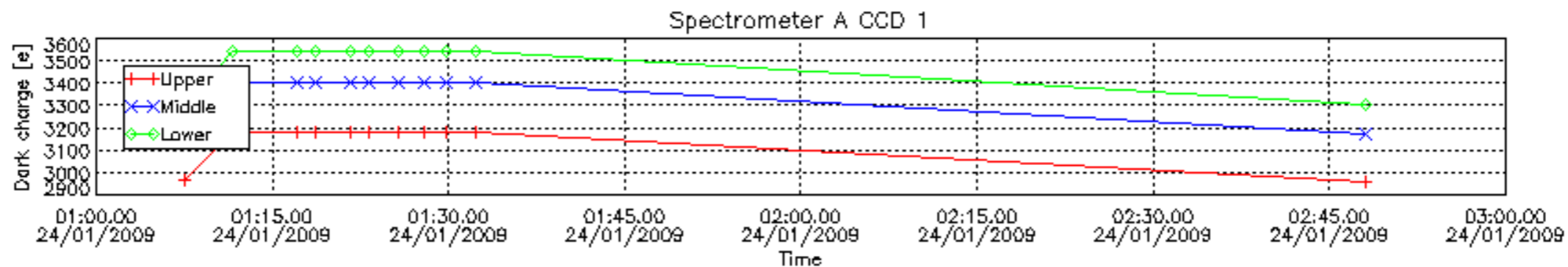
8. Auxiliary Data Files used for the production reported in section 2.4

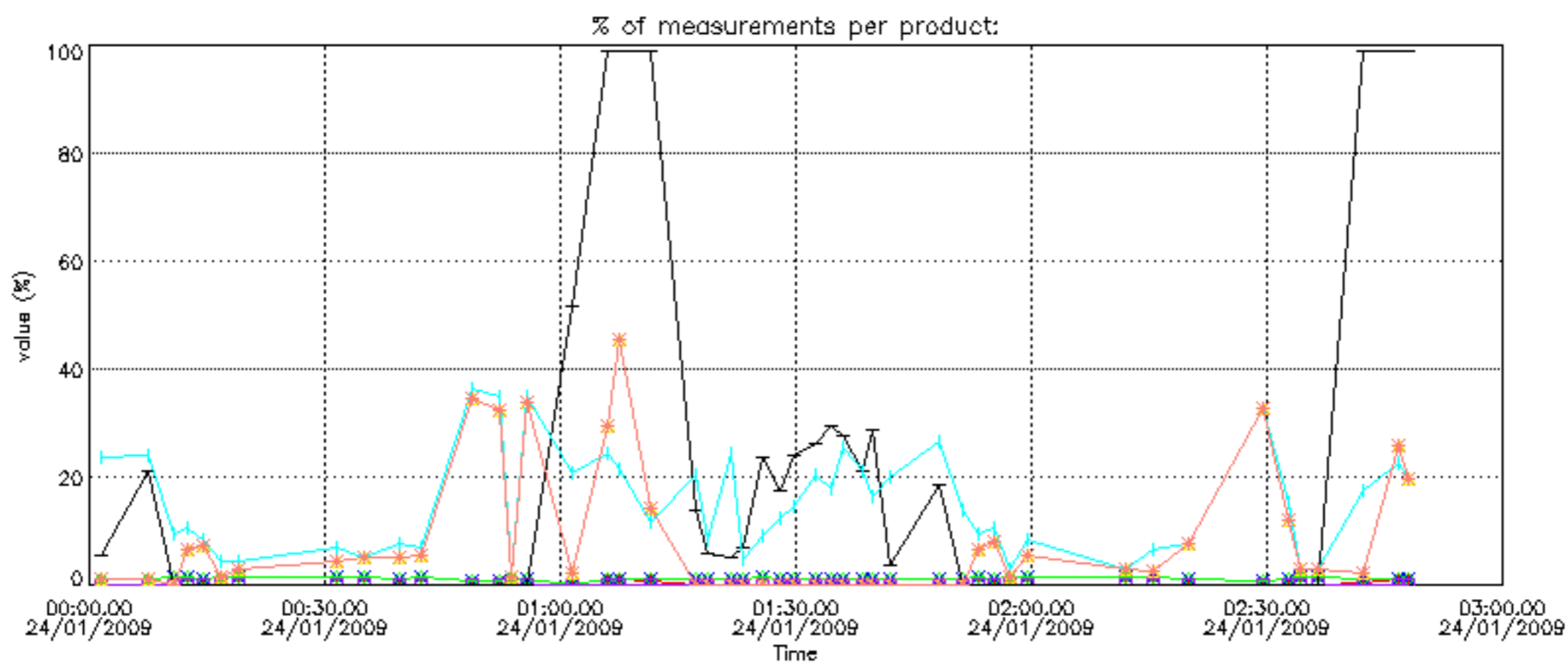
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	24-JAN-2009 00:01:24
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090123_085712_20090120_000000_20100101_000000	1	24-JAN-2009 00:01:24
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	24-JAN-2009 00:01:24
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	24-JAN-2009 00:01:24
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	24-JAN-2009 00:01:24
ECMWF_FILE	AUX_ECF_AXNECM20090123_163612_20090123_210000_20090124_090000	1	24-JAN-2009 00:01:24
OPTIONAL_ECMWF_FILE	MISSING	1	24-JAN-2009 00:01:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090123_213838_000057382075_00458_36083_7223.N1	1	24-JAN-2009 00:01:24
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090123_231935_000057382075_00459_36084_7224.N1	17	24-JAN-2009 01:06:01
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090124_010033_000044632075_00460_36085_7225.N1	42	24-JAN-2009 02:22:58

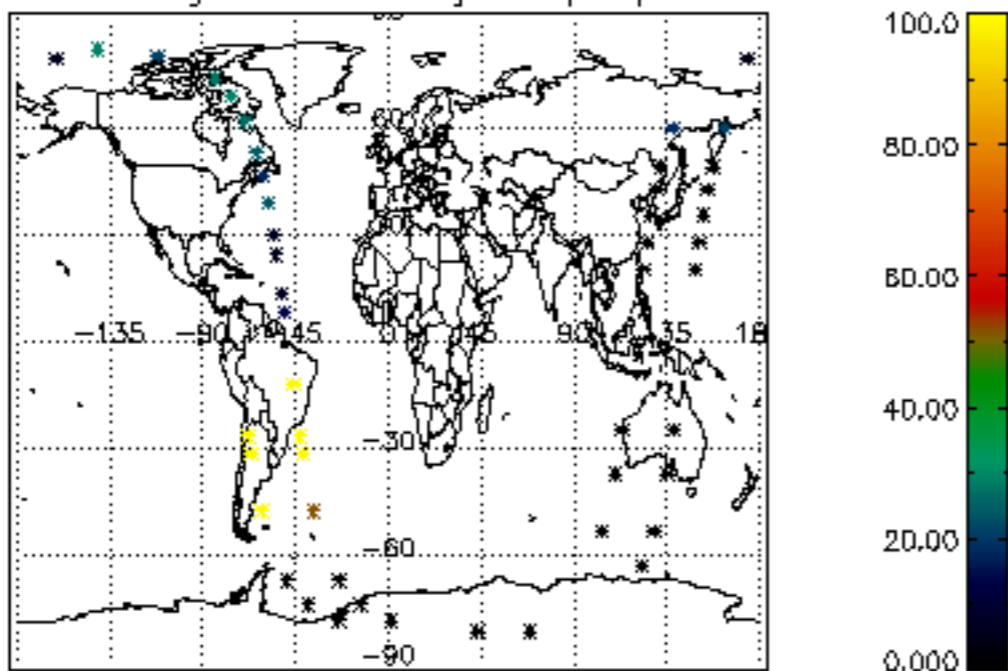




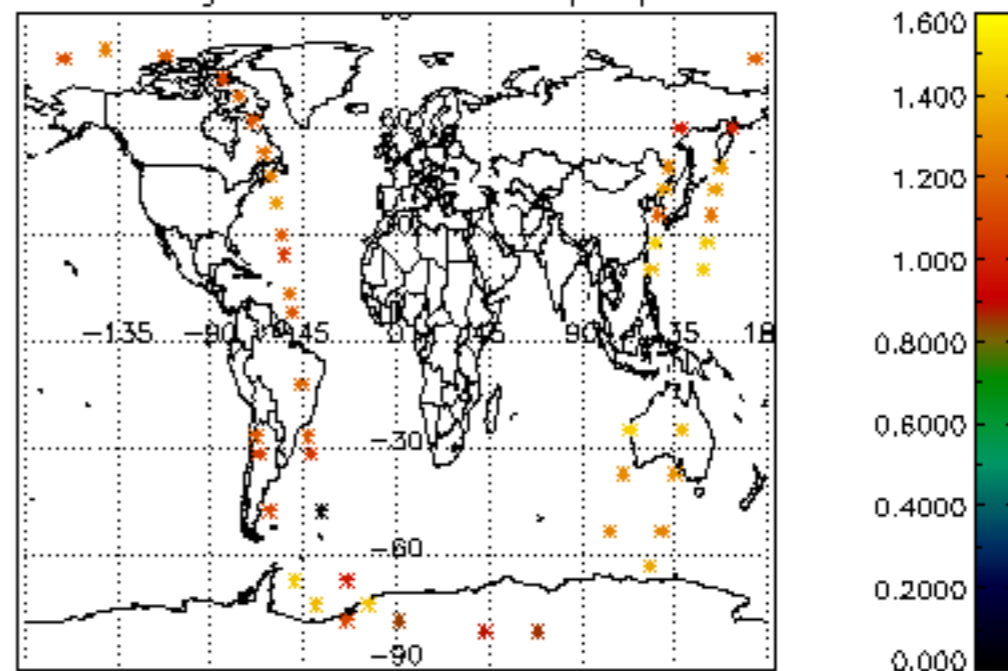




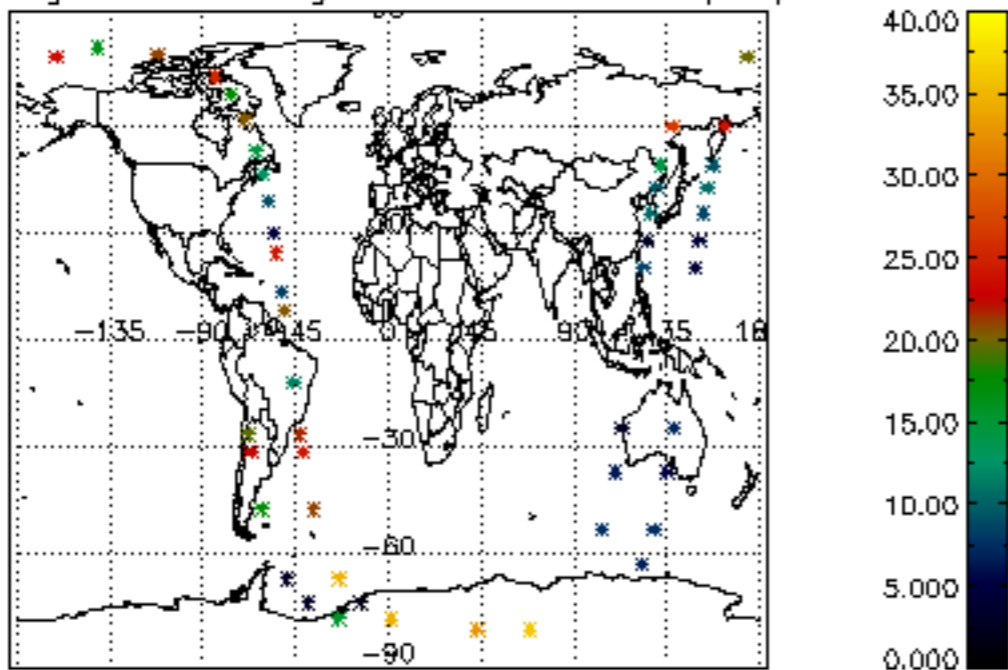
Percentage of cosmic ray hits per profile



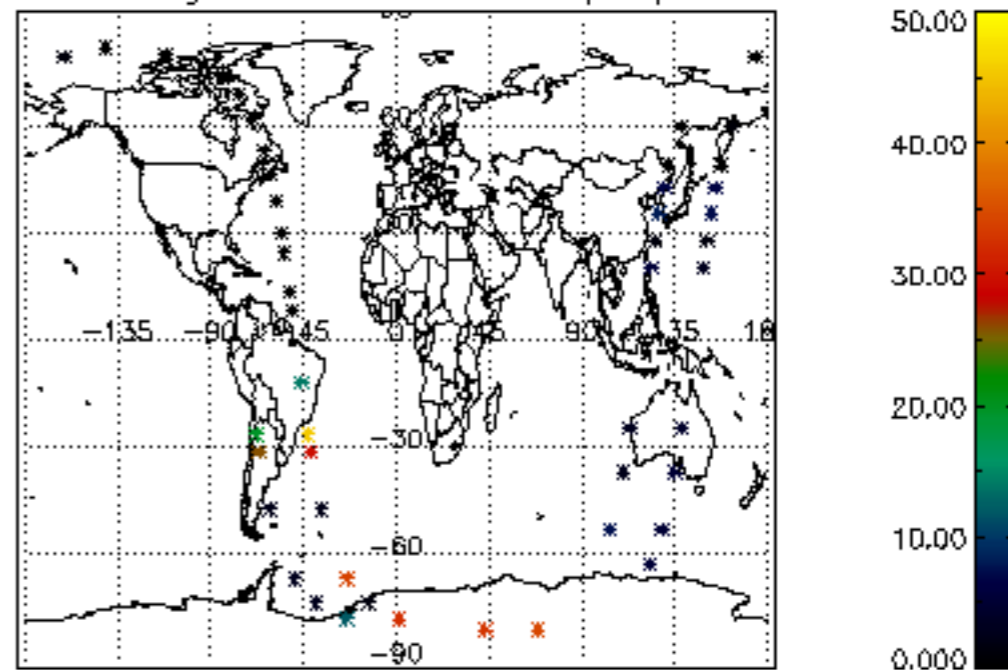
Percentage of datation errors per profile



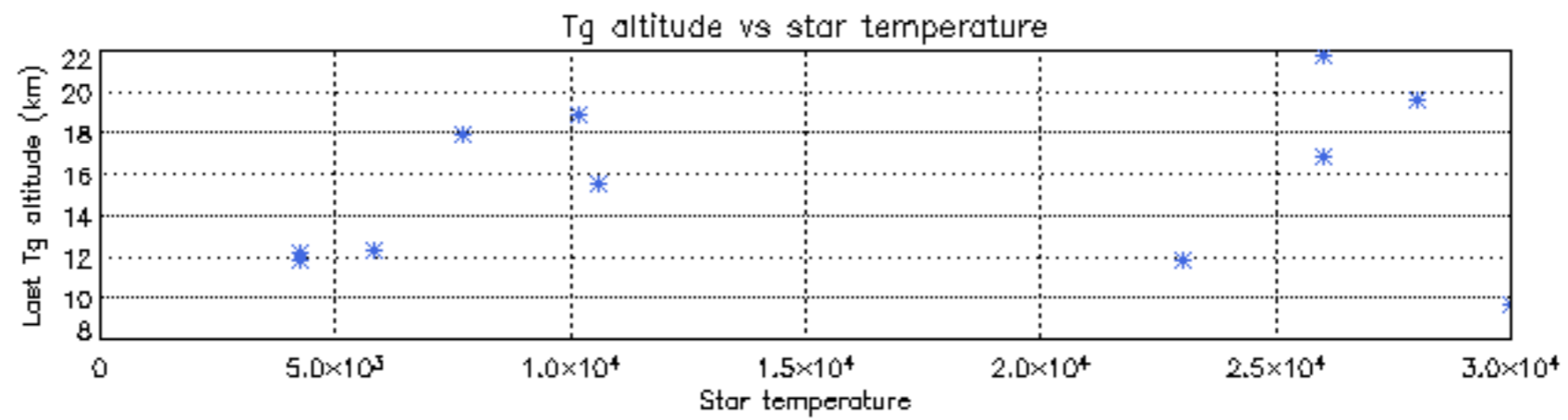
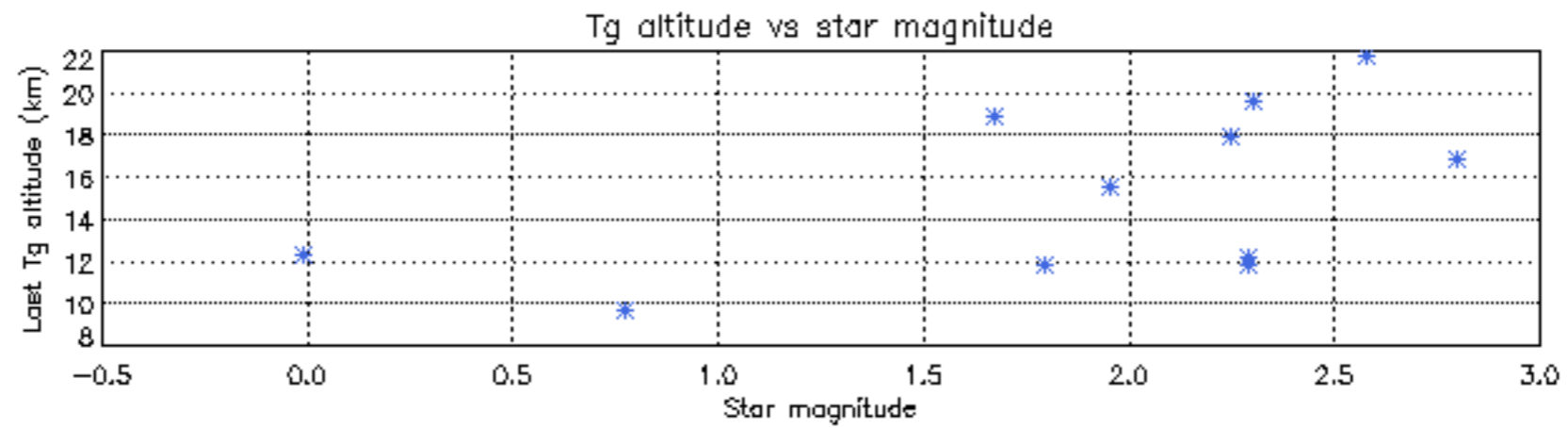
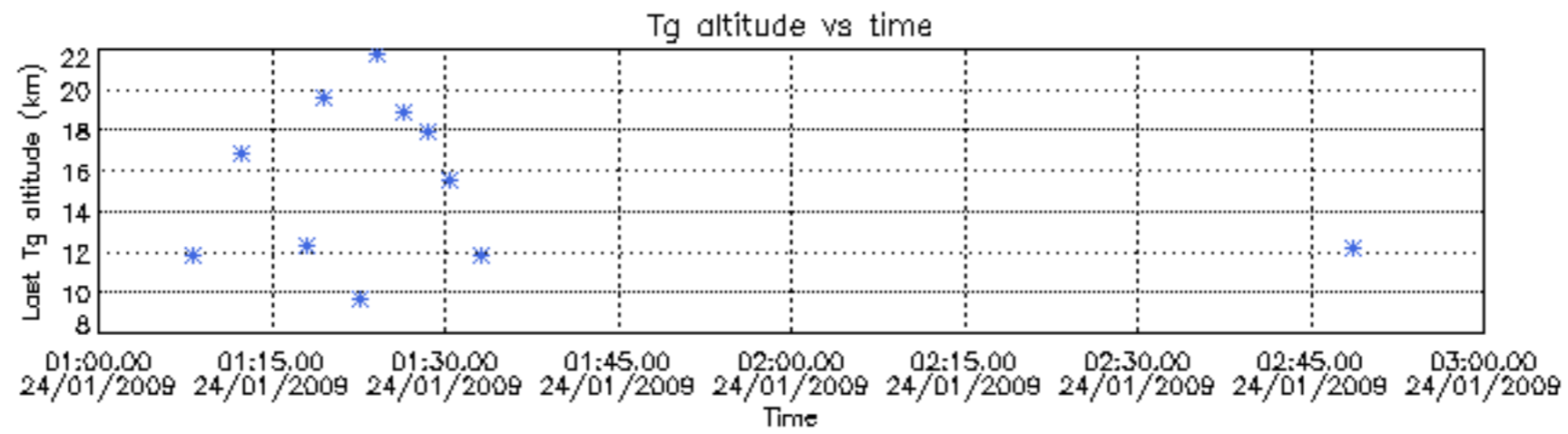
Percentage of star falling outside central band per profile



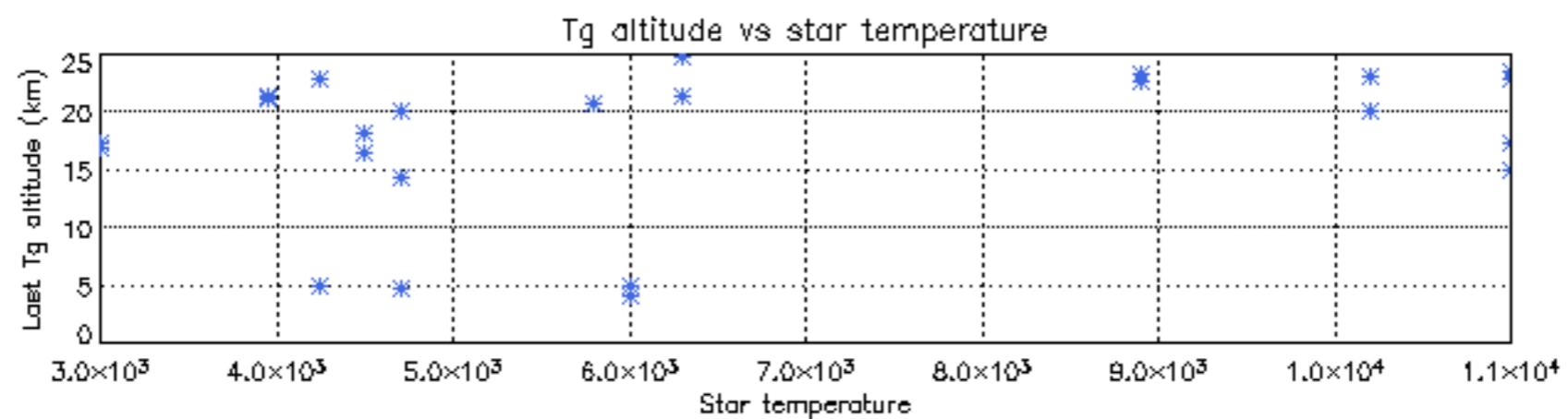
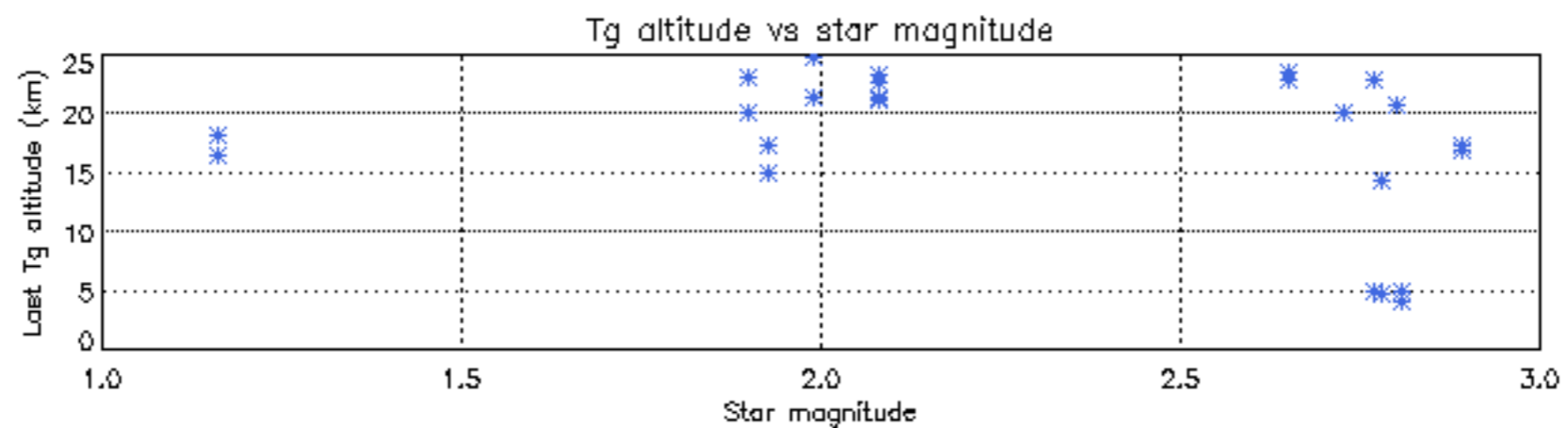
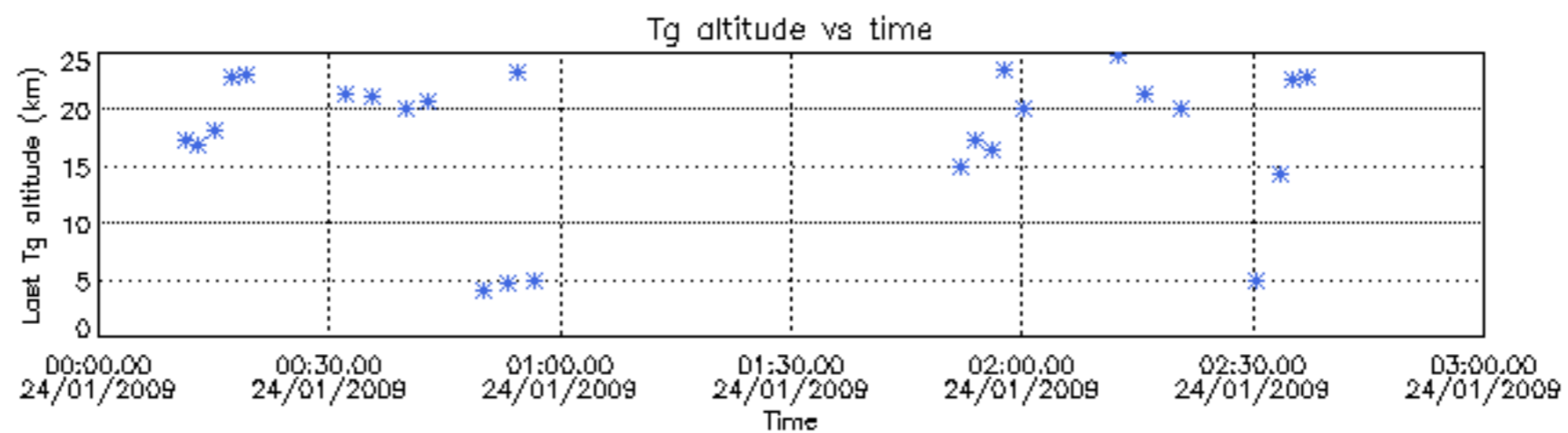
Percentage of saturation errors per profile



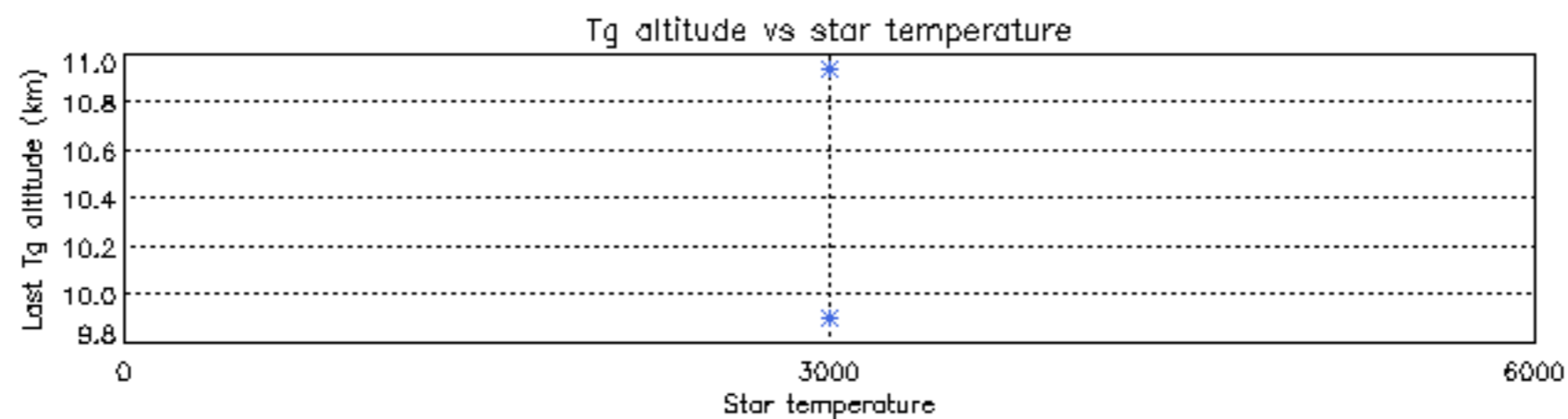
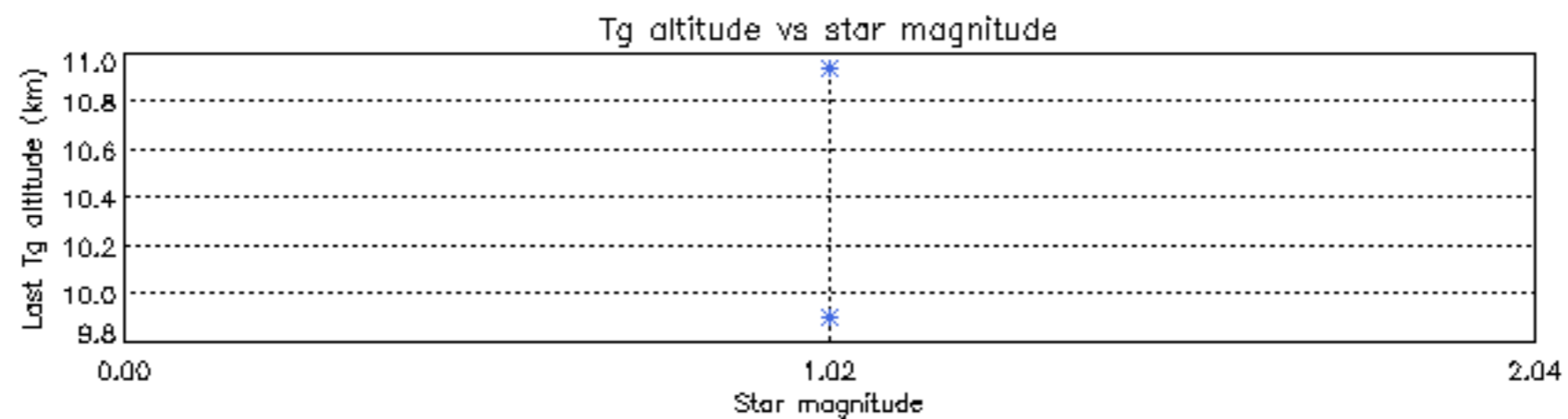
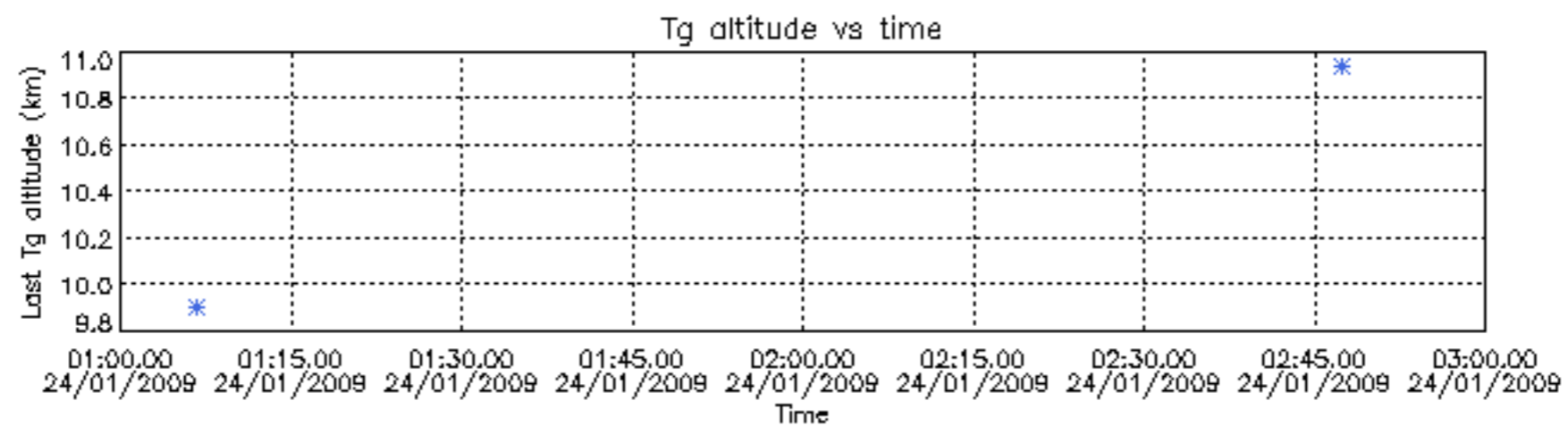
Tangent altitude at which the star is lost

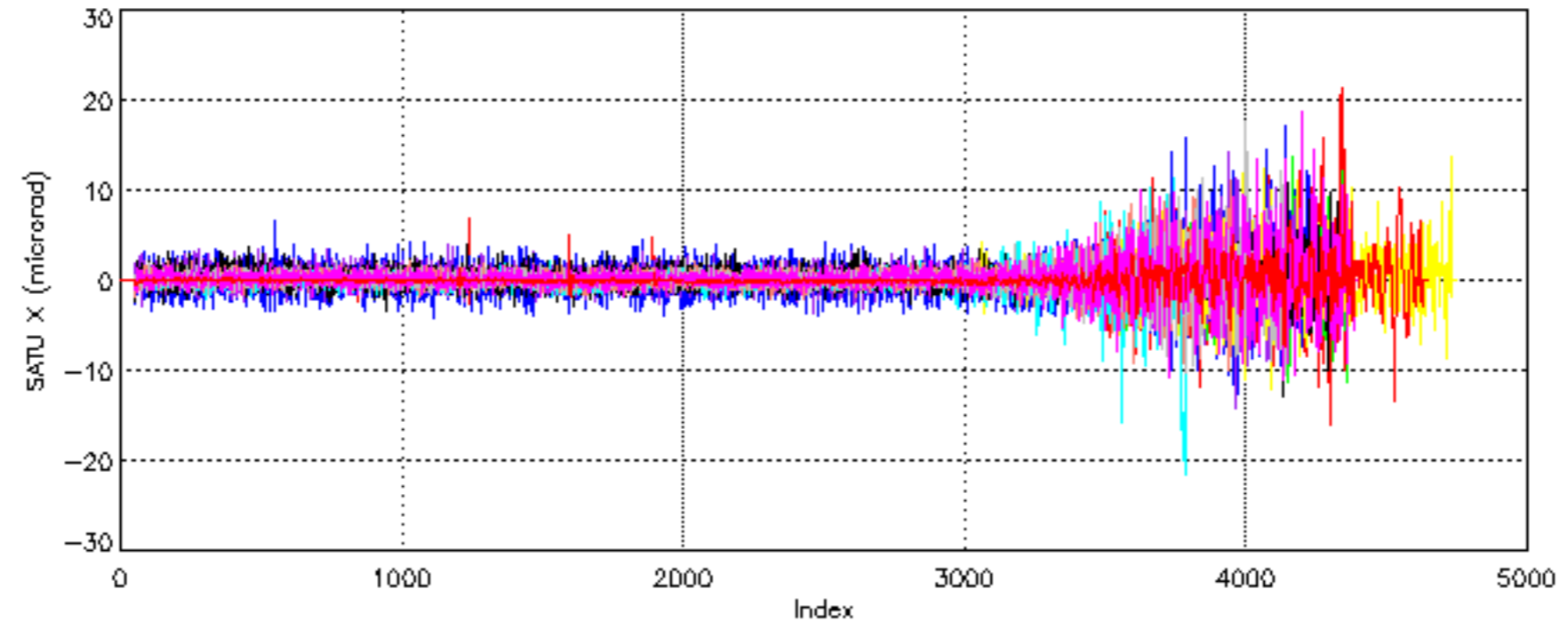


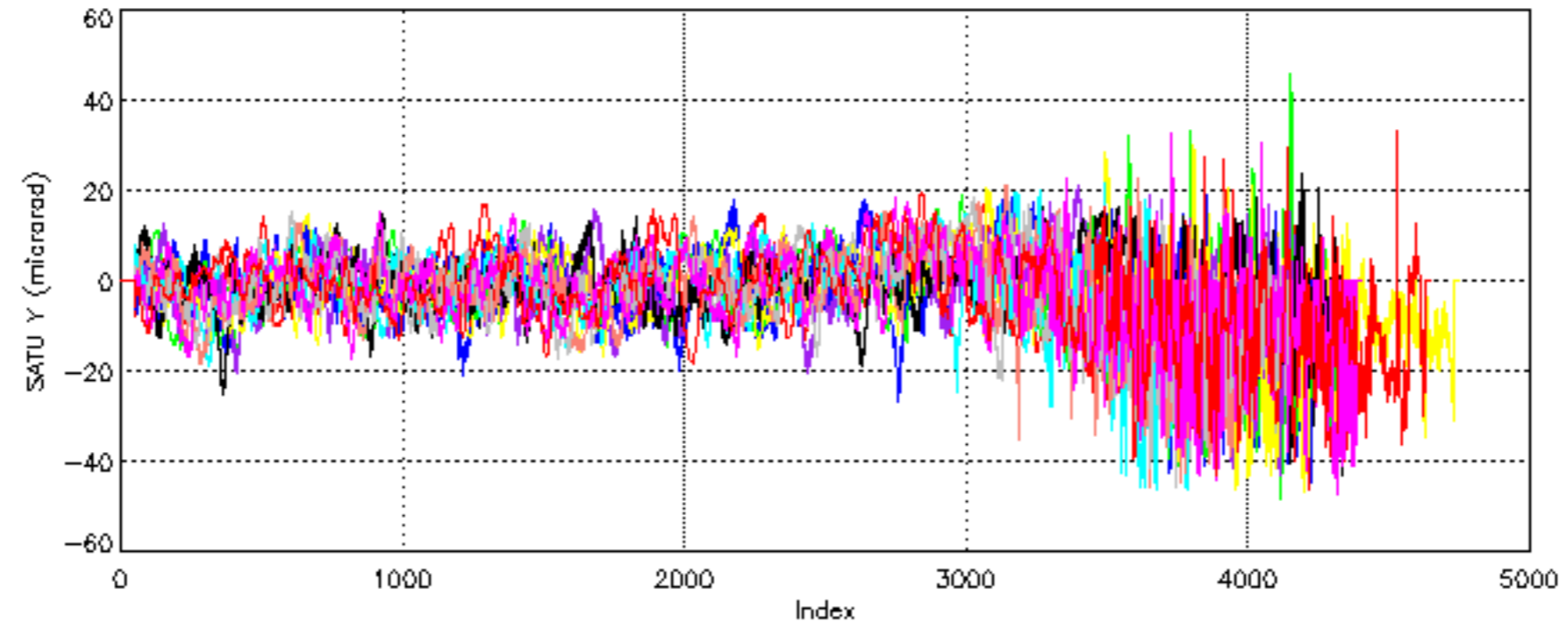
Tangent altitude at which the star is lost

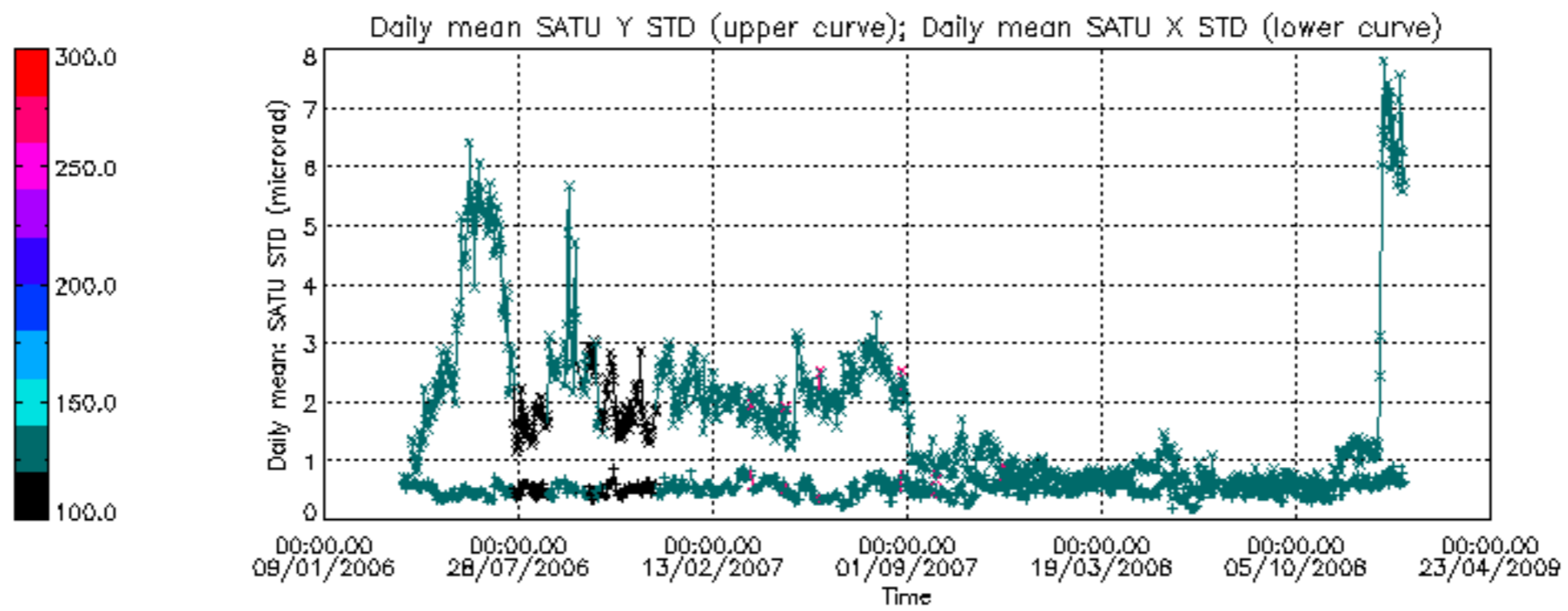


Tangent altitude at which the star is lost









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 3; 213.9; 01-JAN-2009 01:41:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35757
 4; 432.4; 01-JAN-2009 01:45:07; Dark ; 39.0; 124; The Car ; 2.76; 30000;occ; 78; 0;35757
 5; 548.6; 01-JAN-2009 01:47:03; Dark ; 39.0; 29; Bet Car ; 1.67; 10200;occ; 78; 0;35757
 6; 632.8; 01-JAN-2009 01:48:27; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;35757
 7; 727.3; 01-JAN-2009 01:50:02; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;35757
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 10; 1341.9; 01-JAN-2009 02:00:16; Dark ; 43.0; 23; 21Eps CMA ; 1.50; 26000;occ; 86; 0;35757
 11; 1434.6; 01-JAN-2009 02:01:49; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;35757
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 13; 1770.1; 01-JAN-2009 02:07:24; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;35757
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 15; 2032.5; 01-JAN-2009 02:11:47; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;35757
 16; 2270.6; 01-JAN-2009 02:15:45; Bright; 38.5; 176; 23Zet Tau ; 3.02; 22000;occ; 77; 0;35757
 17; 2396.8; 01-JAN-2009 02:17:51; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35757
 18; 2472.2; 01-JAN-2009 02:19:07; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35757
 19; 2565.7; 01-JAN-2009 02:20:40; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;35757
 20; 2692.3; 01-JAN-2009 02:22:47; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;35757
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 14; 634.0; 01-JAN-2009 05:09:40; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35759
 15; 728.8; 01-JAN-2009 05:11:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;35759

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22; 1881.5; 01-JAN-2009 05:30:28; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;35759
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 16; 256.8; 04-JAN-2009 06:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
 17; 456.7; 04-JAN-2009 06:53:04; Dark ; 38.5; 124; The Car ; 2.76; 30000;occ; 77; 0;35803
 18; 565.3; 04-JAN-2009 06:54:52; Dark ; 43.0; 29; Bet Car ; 1.67; 10200;occ; 86; 0;35803
 19; 657.5; 04-JAN-2009 06:56:25; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;35803
 20; 747.7; 04-JAN-2009 06:57:55; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;35803
 21; 992.1; 04-JAN-2009 07:01:59; Dark ; 41.5; 2; Alp Car ;-0.74; 7000;occ; 83; 0;35803
 22; 1190.7; 04-JAN-2009 07:05:18; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35803
 23; 1354.5; 04-JAN-2009 07:08:02; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
 24; 1444.6; 04-JAN-2009 07:09:32; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35803

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 9; 2556.9; 04-JAN-2009 07:28:04; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35803
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 12; 3685.2; 04-JAN-2009 07:46:52; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;35803
 13; 3923.6; 04-JAN-2009 07:50:51; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;35803
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 15; 4429.8; 04-JAN-2009 07:59:17; Bright; 39.0; 133; 40Zet Her ; 2.81; 6000;occ; 78; 0;35803
 16; 4555.2; 04-JAN-2009 08:01:22; Bright; 37.5; 67; 5Alp CrB ; 2.22; 11000;occ; 75; 0;35803
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 18; 5043.0; 04-JAN-2009 08:09:30; Bright; 34.5; 120; 1Del Oph ; 2.73; 3200;occ; 69; 0;35803
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 21; 5694.3; 04-JAN-2009 08:20:21; Dark ; 40.0; 131; Gam Lup ; 2.80; 26000;occ; 80; 0;35803
 22; 5779.5; 04-JAN-2009 08:21:47; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;35803
 23; 5868.0; 04-JAN-2009 08:23:15; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;35803
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 26; 6185.0; 04-JAN-2009 08:28:32; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;35803
 27; 6293.7; 04-JAN-2009 08:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35803
 28; 6493.3; 04-JAN-2009 08:33:40; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35803
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 31; 6783.5; 04-JAN-2009 08:38:31; Dark ; 44.5; 41; Eps Car ; 1.86; 4100;occ; 89; 0;35803
 32; 7027.8; 04-JAN-2009 08:42:35; Dark ; 44.0; 2; Alp Car ;-0.74; 7000;occ; 88; 0;35803
 33; 7109.3; 04-JAN-2009 08:43:56; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35803
 34; 7227.1; 04-JAN-2009 08:45:54; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;35803
 35; 7390.8; 04-JAN-2009 08:48:38; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;35803
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 37; 7624.3; 04-JAN-2009 08:52:31; Dark ; 48.0; 1; 9Alp CMa ;-1.44; 11000;occ; 96; 0;35803
 38; 7813.8; 04-JAN-2009 08:55:41; Dark ; 31.0; 7; 19Bet Ori ; 0.10; 14000;occ; 62; 0;35803

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 5; 2394.5; 04-JAN-2009 09:05:57; Bright; 38.5; 28; 12Bet Tau ; 1.65; 15200;occ; 77; 0;35804
 6; 2474.7; 04-JAN-2009 09:07:18; Bright; 37.0; 114; 3Iot Aur ; 2.69; 4600;occ; 74; 0;35804
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 11; 3923.7; 04-JAN-2009 09:31:27; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;35804

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 13; 4430.3; 04-JAN-2009 09:39:53; Bright; 52.0; 133; 40Zet Her ; 2.81; 6000;occ; 104; 0;35804
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 16; 5043.1; 04-JAN-2009 09:50:06; Bright; 35.0; 120; 1Del Oph ; 2.73; 3200;occ; 70; 0;35804
 17; 5219.4; 04-JAN-2009 09:53:02; Bright; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;35804
 18; 5386.3; 04-JAN-2009 09:55:49; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;35804
 19; 5694.8; 04-JAN-2009 10:00:58; Dark ; 37.5; 131; Gam Lup ; 2.80; 26000;occ; 75; 0;35804
 20; 5780.2; 04-JAN-2009 10:02:23; Dark ; 40.0; 109; Bet Lup ; 2.68; 26000;occ; 80; 0;35804
 21; 5869.3; 04-JAN-2009 10:03:52; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;35804
 22; 5965.6; 04-JAN-2009 10:05:29; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;35804
 23; 6052.1; 04-JAN-2009 10:06:55; Dark ; 46.0; 4; Alp1Cen ; -0.01; 5800;occ; 92; 0;35804
 24; 6185.7; 04-JAN-2009 10:09:09; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;35804
 25; 6294.6; 04-JAN-2009 10:10:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35804
 26; 6493.6; 04-JAN-2009 10:14:17; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35804
 27; 6602.2; 04-JAN-2009 10:16:05; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;35804
 28; 6694.1; 04-JAN-2009 10:17:37; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;35804
 29; 6784.0; 04-JAN-2009 10:19:07; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;35804
 30; 7027.7; 04-JAN-2009 10:23:11; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;35804
 31; 7110.3; 04-JAN-2009 10:24:33; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35804
 32; 7227.1; 04-JAN-2009 10:26:30; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35804
 33; 7390.8; 04-JAN-2009 10:29:14; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;35804
 34; 7481.2; 04-JAN-2009 10:30:44; Dark ; 42.0; 179; 240mi2CMa ; 3.03; 24000;occ; 84; 0;35804
 35; 7624.4; 04-JAN-2009 10:33:07; Dark ; 53.0; 1; 9Alp CMa ; -1.44; 11000;occ; 106; 0;35804

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 3; 1885.6; 04-JAN-2009 10:38:04; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;35805
 4; 2031.5; 04-JAN-2009 10:40:30; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;35805
 5; 2269.3; 04-JAN-2009 10:44:28; Bright; 34.5; 176; 23Zet Tau ; 3.02; 22000;occ; 69; 0;35805
 6; 2395.0; 04-JAN-2009 10:46:34; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35805
 7; 2475.1; 04-JAN-2009 10:47:54; Bright; 37.5; 114; 3Iot Aur ; 2.69; 4600;occ; 75; 0;35805
 8; 2555.3; 04-JAN-2009 10:49:14; Bright; 36.0; 107; 37The Aur ; 2.65; 11000;occ; 72; 0;35805
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 12; 3923.6; 04-JAN-2009 11:12:02; Bright; 33.5; 119; 14Eta Dra ; 2.73; 4700;occ; 67; 0;35805
 13; 4057.1; 04-JAN-2009 11:14:16; Bright; 33.0; 130; 23Bet Dra ; 2.80; 5800;occ; 66; 0;35805
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 15; 4555.4; 04-JAN-2009 11:22:34; Bright; 40.5; 67; 5Alp CrB ; 2.22; 11000;occ; 81; 0;35805
 16; 4907.1; 04-JAN-2009 11:28:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;35805
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 19; 5387.3; 04-JAN-2009 11:36:26; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;35805
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 26; 6295.5; 04-JAN-2009 11:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35805
 27; 6494.3; 04-JAN-2009 11:54:53; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;35805
 28; 6602.6; 04-JAN-2009 11:56:41; Dark ; 38.5; 29; Bet Car ; 1.67; 10200;occ; 77; 0;35805
 29; 6694.9; 04-JAN-2009 11:58:14; Dark ; 49.0; 71; Iot Car ; 2.25; 7700;occ; 98; 0;35805
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 31; 7028.2; 04-JAN-2009 12:03:47; Dark ; 48.0; 2; Alp Car ; -0.74; 7000;occ; 96; 0;35805
 32; 7110.5; 04-JAN-2009 12:05:09; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;35805
 33; 7227.8; 04-JAN-2009 12:07:07; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;35805
 34; 7391.0; 04-JAN-2009 12:09:50; Dark ; 45.5; 23; 21Eps CMa ; 1.50; 26000;occ; 91; 0;35805
 35; 7481.4; 04-JAN-2009 12:11:20; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;35805

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27; 6296.4; 04-JAN-2009 13:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;35806
28; 6494.7; 04-JAN-2009 13:35:29; Dark ; 37.5; 124; The Car ; 2.76; 30000;occ; 75; 0;35806
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32; 7028.6; 04-JAN-2009 13:44:23; Dark ; 46.5; 2; Alp Car ;-0.74; 7000;occ; 93; 0;35806
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35; 7391.4; 04-JAN-2009 13:50:26; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;35806
36; 7481.3; 04-JAN-2009 13:51:56; Dark ; 43.5; 179; 240mi2Cma ; 3.03; 24000;occ; 87; 0;35806

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 34; 4439.9; 08-JAN-2009 22:38:58; Bright; 35.0; 133; 40Zet Her ; 2.81; 6000;occ; 70; 0;35869
 35; 4568.0; 08-JAN-2009 22:41:06; Bright; 49.5; 67; 5Alp CrB ; 2.22; 11000;occ; 99; 0;35869
 36; 4930.4; 08-JAN-2009 22:47:08; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;35869
 37; 5063.2; 08-JAN-2009 22:49:21; Bright; 36.5; 120; 1Del Oph ; 2.73; 3200;occ; 73; 0;35869
 38; 5151.6; 08-JAN-2009 22:50:50; Bright; 40.0; 98; 13Zet Oph ; 2.57; 30000;occ; 80; 0;35869
 39; 5256.0; 08-JAN-2009 22:52:34; Dark ; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;35869

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 22; 2300.3; 08-JAN-2009 23:43:54; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;35870
 23; 2395.6; 08-JAN-2009 23:45:30; Bright; 36.5; 28; 12Bet Tau ; 1.65; 15200;occ; 73; 0;35870
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 33; 5063.6; 09-JAN-2009 00:29:58; Bright; 36.0; 120; 1Del Oph ; 2.73; 3200;occ; 72; 0;35870
 34; 5152.3; 09-JAN-2009 00:31:26; Bright; 52.0; 98; 13Zet Oph ; 2.57; 30000;occ; 104; 0;35870
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12;	775.4;	09-JAN-2009	02:39:41;	Dark	;	43.0;	41;	Eps Car	;	1.86;	4100;occ;	86;	0;	35872
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 4; 2194.1; 11-JAN-2009 10:23:05; Dark ; 43.0; 44; 24Gam Gem ; 1.93; 11000;occ; 86; 0;35905
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 9; 3424.1; 11-JAN-2009 10:43:35; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;35905
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 31; 7152.5; 11-JAN-2009 11:45:44; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;35905
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25;	5926.1;	11-JAN-2009	16:27:05;	Dark	;	43.0;	78;	Alp Lup	;	2.30;	28000;occ;	86;	0;	35908
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27;	6293.2;	11-JAN-2009	16:33:12;	Dark	;	40.5;	20;	Bet Cru	;	1.25;	30000;occ;	81;	0;	35908
28;	6392.7;	11-JAN-2009	16:34:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	35908
29;	6546.5;	11-JAN-2009	16:37:25;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	35908
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31;	6745.3;	11-JAN-2009	16:40:44;	Dark	;	39.0;	71;	Iot Car	;	2.25;	7700;occ;	78;	0;	35908
32;	6825.1;	11-JAN-2009	16:42:04;	Dark	;	50.0;	41;	Eps Car	;	1.86;	4100;occ;	100;	0;	35908
33;	7024.0;	11-JAN-2009	16:45:23;	Dark	;	44.0;	34;	Gam2Vel	;	1.79;	23000;occ;	88;	0;	35908
34;	7153.4;	11-JAN-2009	16:47:32;	Dark	;	45.5;	70;	Zet Pup	;	2.25;	39000;occ;	91;	0;	35908
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6;	1750.3;	11-JAN-2009	16:58:05;	Dark	;	42.0;	56;	53Kap Ori	;	2.07;	30000;occ;	84;	0;	35909
7;	1897.7;	11-JAN-2009	17:00:33;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;occ;	83;	0;	35909
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 27; 6456.7; 25-JAN-2009 09:13:16; Dark ; 48.0; 12; Alp1Cru ; 0.77; 30000;occ; 96; 0;36104
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 25; 6457.7; 25-JAN-2009 12:34:29; Dark ; 40.5; 12; Alp1Cru ; 0.77; 30000;occ; 81; 0;36106
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 27; 6695.4; 25-JAN-2009 12:38:27; Dark ; 37.0; 29; Bet Car ; 1.67; 10200;occ; 74; 0;36106
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 29; 6936.2; 25-JAN-2009 12:42:27; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;36106
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14;	5511.4;	29-JAN-2009	08:31:39;	Dark	;	36.0;	97;	8Bet1Sco	;	2.56;	30000;occ;	72;	0;	36161
15;	5606.0;	29-JAN-2009	08:33:13;	Dark	;	40.5;	25;	35Lam Sco	;	1.62;	28000;occ;	81;	0;	36161
16;	5892.3;	29-JAN-2009	08:37:59;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36161
17;	6022.3;	29-JAN-2009	08:40:09;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36161
18;	6118.8;	29-JAN-2009	08:41:46;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36161
19;	6212.0;	29-JAN-2009	08:43:19;	Dark	;	29.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	59;	0;	36161
20;	6320.2;	29-JAN-2009	08:45:07;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36161
21;	6487.6;	29-JAN-2009	08:47:55;	Dark	;	39.5;	12;	Alp1Cru	;	0.77;	30000;occ;	79;	0;	36161
22;	6732.9;	29-JAN-2009	08:52:00;	Dark	;	38.0;	159;	Ups Car	;	2.92;	7200;occ;	76;	0;	36161
23;	6847.9;	29-JAN-2009	08:53:55;	Dark	;	42.5;	71;	Iot Car	;	2.25;	7700;occ;	85;	0;	36161
24;	6953.9;	29-JAN-2009	08:55:41;	Dark	;	42.5;	46;	Del Vel	;	1.95;	10600;occ;	85;	0;	36161
25;	7107.0;	29-JAN-2009	08:58:14;	Dark	;	42.0;	34;	Gam2Vel	;	1.79;	23000;occ;	84;	0;	36161
26;	7232.6;	29-JAN-2009	09:00:20;	Dark	;	39.5;	70;	Zet Pup	;	2.25;	39000;occ;	79;	0;	36161
27;	7317.2;	29-JAN-2009	09:01:44;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	36161
28;	7441.5;	29-JAN-2009	09:03:49;	Dark	;	41.0;	88;	31Eta CMa	;	2.45;	20000;occ;	82;	0;	36161
29;	7546.4;	29-JAN-2009	09:05:34;	Dark	;	38.5;	179;	240mi2CMa	;	3.03;	24000;occ;	77;	0;	36161

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2;	2194.8;	29-JAN-2009	12:38:10;	Bright;	;	42.5;	44;	24Gam Gem	;	1.93;	11000;occ;	85;	0;	36164
3;	2304.1;	29-JAN-2009	12:39:59;	Bright;	;	38.5;	151;	13Mu Gem	;	2.89;	3000;occ;	77;	0;	36164
4;	2399.2;	29-JAN-2009	12:41:34;	Bright;	;	43.0;	17;	78Bet Gem	;	1.16;	4500;occ;	86;	0;	36164
5;	2687.0;	29-JAN-2009	12:46:22;	Bright;	;	36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	36164
6;	3621.2;	29-JAN-2009	13:01:56;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	36164
7;	3901.3;	29-JAN-2009	13:06:36;	Bright;	;	41.0;	119;	14Eta Dra	;	2.73;	4700;occ;	82;	0;	36164
8;	4087.0;	29-JAN-2009	13:09:42;	Bright;	;	37.0;	130;	23Bet Dra	;	2.80;	5800;occ;	74;	0;	36164
9;	4300.4;	29-JAN-2009	13:13:15;	Bright;	;	52.0;	5;	3Alp Lyr	;	0.03;	11000;occ;	104;	0;	36164
10;	4788.0;	29-JAN-2009	13:21:23;	Bright;	;	37.0;	59;	55Alp Oph	;	2.08;	8900;occ;	74;	0;	36164
11;	4915.4;	29-JAN-2009	13:23:30;	Bright;	;	38.5;	126;	60Bet Oph	;	2.77;	4250;occ;	77;	0;	36164
12;	5298.9;	29-JAN-2009	13:29:54;	Dark	;	43.0;	86;	35Eta Oph	;	2.43;	10200;occ;	86;	0;	36164
13;	5551.4;	29-JAN-2009	13:34:06;	Dark	;	46.5;	16;	21Alp Sco	;	1.02;	3000;occ;	93;	0;	36164
14;	5895.1;	29-JAN-2009	13:39:50;	Dark	;	44.5;	131;	Gam Lup	;	2.80;	26000;occ;	89;	0;	36164
15;	6025.0;	29-JAN-2009	13:42:00;	Dark	;	45.0;	109;	Bet Lup	;	2.68;	26000;occ;	90;	0;	36164
16;	6120.8;	29-JAN-2009	13:43:36;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36164
17;	6213.9;	29-JAN-2009	13:45:09;	Dark	;	41.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	82;	0;	36164
18;	6322.6;	29-JAN-2009	13:46:57;	Dark	;	43.0;	77;	Eps Cen	;	2.30;	28000;occ;	86;	0;	36164
19;	6489.5;	29-JAN-2009	13:49:44;	Dark	;	42.0;	12;	Alp1Cru	;	0.77;	30000;occ;	84;	0;	36164
20;	6602.3;	29-JAN-2009	13:51:37;	Dark	;	44.5;	99;	Del Cen	;	2.58;	26000;occ;	89;	0;	36164
21;	6734.5;	29-JAN-2009	13:53:49;	Dark	;	36.0;	159;	Ups Car	;	2.92;	7200;occ;	72;	0;	36164
22;	6849.1;	29-JAN-2009	13:55:44;	Dark	;	46.0;	71;	Iot Car	;	2.25;	7700;occ;	92;	0;	36164
23;	6955.1;	29-JAN-2009	13:57:30;	Dark	;	40.5;	46;	Del Vel	;	1.95;	10600;occ;	81;	0;	36164
24;	7108.0;	29-JAN-2009	14:00:03;	Dark	;	39.0;	34;	Gam2Vel	;	1.79;	23000;occ;	78;	0;	36164
25;	7233.3;	29-JAN-2009	14:02:08;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	36164
26;	7317.9;	29-JAN-2009	14:03:33;	Dark	;	44.0;	117;	Pi Pup	;	2.71;	3800;occ;	88;	0;	36164
27;	7442.5;	29-JAN-2009	14:05:37;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36164

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2;	-480.2;	30-JAN-2009	01:18:22;	Dark	;	48.0;	16;	21Alp Sco	;	1.02;	3000;occ;	96;	0;	36171
3;	-135.8;	30-JAN-2009	01:24:07;	Dark	;	42.0;	131;	Gam Lup	;	2.80;	26000;occ;	84;	0;	36171
4;	-4.2;	30-JAN-2009	01:26:18;	Dark	;	44.0;	109;	Bet Lup	;	2.68;	26000;occ;	88;	0;	36171
5;	89.7;	30-JAN-2009	01:27:52;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36172
6;	181.7;	30-JAN-2009	01:29:24;	Dark	;	52.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	105;	0;	36172
7;	292.0;	30-JAN-2009	01:31:14;	Dark	;	42.5;	77;	Eps Cen	;	2.30;	28000;occ;	85;	0;	36172
8;	457.3;	30-JAN-2009	01:34:00;	Dark	;	43.5;	12;	Alp1Cru	;	0.77;	30000;occ;	87;	0;	36172
9;	572.2;	30-JAN-2009	01:35:55;	Dark	;	48.0;	99;	Del Cen	;	2.58;	26000;occ;	96;	0;	36172

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11; 815.6; 30-JAN-2009 01:39:58; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;36172
12; 921.4; 30-JAN-2009 01:41:44; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;36172
13; 1074.0; 30-JAN-2009 01:44:16; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;36172
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15; 1407.8; 30-JAN-2009 01:49:50; Dark ; 41.5; 88; 31Eta CMa ; 2.45; 20000;occ; 83; 0;36172
16; 1512.2; 30-JAN-2009 01:51:35; Dark ; 38.5; 179; 240mi2CMa ; 3.03; 24000;occ; 77; 0;36172
17; 1992.6; 30-JAN-2009 01:59:35; Dark ; 50.5; 8; 10Alp CMI ; 0.40; 6500;occ; 101; 0;36172
18; 2196.4; 30-JAN-2009 02:02:59; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;36172
19; 2305.4; 30-JAN-2009 02:04:48; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;36172
20; 2397.6; 30-JAN-2009 02:06:20; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;36172
21; 2688.1; 30-JAN-2009 02:11:10; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;36172
22; 3427.5; 30-JAN-2009 02:23:30; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;36172
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4; -1245.0; 30-JAN-2009 02:46:13; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;36172
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13; 458.0; 30-JAN-2009 03:14:36; Dark ; 40.0; 12; Alp1Cru ; 0.77; 30000;occ; 80; 0;36173
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17; 921.7; 30-JAN-2009 03:22:20; Dark ; 38.0; 46; Del Vel ; 1.95; 10600;occ; 76; 0;36173
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12; 182.4; 30-JAN-2009 04:50:37; Dark ; 55.0; 4; Alp1Cen ; -0.01; 5800;occ; 110; 0;36174
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15; 573.8; 30-JAN-2009 04:57:08; Dark ; 44.5; 99; Del Cen ; 2.58; 26000;occ; 89; 0;36174
16; 701.4; 30-JAN-2009 04:59:16; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;36174
17; 816.4; 30-JAN-2009 05:01:11; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;36174
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19; 1074.5; 30-JAN-2009 05:05:29; Dark ; 39.5; 34; Gam2Vel ; 1.79; 23000;occ; 79; 0;36174
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27; 2688.5; 30-JAN-2009 05:32:23; Bright; 35.0; 42; 34Bet Aur ; 1.90; 10200;occ; 70; 0;36174
28; 3427.4; 30-JAN-2009 05:44:42; Bright; 37.0; 49; 1Alp UMi ; 1.99; 6300;occ; 74; 0;36174
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 9; 2690.1; 30-JAN-2009 20:37:48; Bright; 34.0; 42; 34Bet Aur ; 1.90; 10200;occ; 68; 0;36183
10; 3427.3; 30-JAN-2009 20:50:05; Bright; 33.5; 49; 1Alp UMi ; 1.99; 6300;occ; 67; 0;36183
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12; 3899.4; 30-JAN-2009 20:57:57; Bright; 33.0; 119; 14Eta Dra ; 2.73; 4700;occ; 66; 0;36183
13; 4087.7; 30-JAN-2009 21:01:06; Bright; 30.5; 130; 23Bet Dra ; 2.80; 5800;occ; 61; 0;36183
14; 4303.3; 30-JAN-2009 21:04:41; Bright; 28.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 56; 0;36183
15; 4794.1; 30-JAN-2009 21:12:52; Bright; 30.5; 59; 55Alp Oph ; 2.08; 8900;occ; 61; 0;36183
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21; 6623.0; 31-JAN-2009 09:27:32; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;36190
22; 6742.9; 31-JAN-2009 09:29:32; Dark ; 32.0; 159; Ups Car ; 2.92; 7200;occ; 64; 0;36190
23; 6858.2; 31-JAN-2009 09:31:28; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36190
24; 6963.7; 31-JAN-2009 09:33:13; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36190
25; 7115.0; 31-JAN-2009 09:35:44; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36190
26; 7239.9; 31-JAN-2009 09:37:49; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36190
27; 7447.5; 31-JAN-2009 09:41:17; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36190

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1; 1993.2; 31-JAN-2009 09:50:59; Dark ; 32.5; 8; 10Alp CMI ; 0.40; 6500;occ; 65; 0;36191
2; 2198.4; 31-JAN-2009 09:54:24; Bright; 31.5; 44; 24Gam Gem ; 1.93; 11000;occ; 63; 0;36191
3; 2340.6; 31-JAN-2009 09:56:46; Bright; 32.0; 170; 27Eps Gem ; 3.00; 9700;occ; 64; 0;36191
4; 2456.5; 31-JAN-2009 09:58:42; Bright; 34.0; 24; 66Alp Gem ; 1.58; 10200;occ; 68; 0;36191
5; 3427.5; 31-JAN-2009 10:14:53; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36191
6; 3614.9; 31-JAN-2009 10:18:00; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36191
7; 3897.4; 31-JAN-2009 10:22:43; Bright; 30.5; 119; 14Eta Dra ; 2.73; 4700;occ; 61; 0;36191
8; 4086.8; 31-JAN-2009 10:25:52; Bright; 28.0; 130; 23Bet Dra ; 2.80; 5800;occ; 56; 0;36191
9; 4304.4; 31-JAN-2009 10:29:30; Bright; 25.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 51; 0;36191
10; 4795.8; 31-JAN-2009 10:37:41; Bright; 28.0; 59; 55Alp Oph ; 2.08; 8900;occ; 56; 0;36191
11; 4923.9; 31-JAN-2009 10:39:49; Bright; 28.0; 126; 60Bet Oph ; 2.77; 4250;occ; 56; 0;36191
12; 5311.4; 31-JAN-2009 10:46:17; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36191
13; 5569.0; 31-JAN-2009 10:50:34; Dark ; 35.0; 16; 21Alp Sco ; 1.02; 3000;occ; 70; 0;36191
14; 5704.4; 31-JAN-2009 10:52:50; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36191
15; 5916.3; 31-JAN-2009 10:56:22; Dark ; 36.5; 131; Gam Lup ; 2.80; 26000;occ; 73; 0;36191
16; 6049.2; 31-JAN-2009 10:58:35; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;36191
17; 6139.6; 31-JAN-2009 11:00:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;36191
18; 6227.9; 31-JAN-2009 11:01:33; Dark ; 34.5; 4; Alp1Cen ; -0.01; 5800;occ; 69; 0;36191
19; 6343.5; 31-JAN-2009 11:03:29; Dark ; 37.5; 77; Eps Cen ; 2.30; 28000;occ; 75; 0;36191
20; 6504.0; 31-JAN-2009 11:06:09; Dark ; 34.0; 12; Alp1Cru ; 0.77; 30000;occ; 68; 0;36191
21; 6623.8; 31-JAN-2009 11:08:09; Dark ; 39.0; 99; Del Cen ; 2.58; 26000;occ; 78; 0;36191
22; 6742.9; 31-JAN-2009 11:10:08; Dark ; 31.5; 159; Ups Car ; 2.92; 7200;occ; 63; 0;36191
23; 6858.1; 31-JAN-2009 11:12:03; Dark ; 31.5; 71; Iot Car ; 2.25; 7700;occ; 63; 0;36191
24; 6963.6; 31-JAN-2009 11:13:49; Dark ; 30.5; 46; Del Vel ; 1.95; 10600;occ; 61; 0;36191
25; 7114.9; 31-JAN-2009 11:16:20; Dark ; 30.5; 34; Gam2Vel ; 1.79; 23000;occ; 61; 0;36191
26; 7239.7; 31-JAN-2009 11:18:25; Dark ; 31.0; 70; Zet Pup ; 2.25; 39000;occ; 62; 0;36191
27; 7447.2; 31-JAN-2009 11:21:52; Dark ; 29.5; 88; 31Eta CMa ; 2.45; 20000;occ; 59; 0;36191

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3; 2341.0; 31-JAN-2009 11:37:22; Bright; 31.0; 170; 27Eps Gem ; 3.00; 9700;occ; 62; 0;36192
4; 2456.5; 31-JAN-2009 11:39:18; Bright; 33.5; 24; 66Alp Gem ; 1.58; 10200;occ; 67; 0;36192
5; 3427.6; 31-JAN-2009 11:55:29; Bright; 29.5; 49; 1Alp UMi ; 1.99; 6300;occ; 59; 0;36192
6; 3614.5; 31-JAN-2009 11:58:36; Bright; 31.5; 60; 7Bet UMi ; 2.08; 3950;occ; 63; 0;36192
7; 3897.3; 31-JAN-2009 12:03:18; Bright; 30.0; 119; 14Eta Dra ; 2.73; 4700;occ; 60; 0;36192
8; 4087.1; 31-JAN-2009 12:06:28; Bright; 27.5; 130; 23Bet Dra ; 2.80; 5800;occ; 55; 0;36192
9; 4304.7; 31-JAN-2009 12:10:06; Bright; 25.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 50; 0;36192
10; 4796.6; 31-JAN-2009 12:18:18; Bright; 27.5; 59; 55Alp Oph ; 2.08; 8900;occ; 55; 0;36192
11; 4924.8; 31-JAN-2009 12:20:26; Bright; 27.0; 126; 60Bet Oph ; 2.77; 4250;occ; 54; 0;36192
12; 5311.8; 31-JAN-2009 12:26:53; Dark ; 31.0; 86; 35Eta Oph ; 2.43; 10200;occ; 62; 0;36192
13; 5569.7; 31-JAN-2009 12:31:11; Dark ; 34.5; 16; 21Alp Sco ; 1.02; 3000;occ; 69; 0;36192
14; 5704.5; 31-JAN-2009 12:33:26; Dark ; 29.5; 40; The Sco ; 1.86; 7100;occ; 59; 0;36192

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16;	6050.0;	31-JAN-2009	12:39:11;	Dark	;	39.0;	109;	Bet Lup	;	2.68;	26000;occ;	78;	0;	36192
17;	6140.3;	31-JAN-2009	12:40:41;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	36192
18;	6228.2;	31-JAN-2009	12:42:09;	Dark	;	34.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	69;	0;	36192
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20;	6504.4;	31-JAN-2009	12:46:46;	Dark	;	34.0;	12;	Alp1Cru	;	0.77;	30000;occ;	68;	0;	36192
21;	6624.7;	31-JAN-2009	12:48:46;	Dark	;	39.0;	99;	Del Cen	;	2.58;	26000;occ;	78;	0;	36192
22;	6743.6;	31-JAN-2009	12:50:45;	Dark	;	31.5;	159;	Ups Car	;	2.92;	7200;occ;	63;	0;	36192
23;	6858.6;	31-JAN-2009	12:52:40;	Dark	;	31.5;	71;	Iot Car	;	2.25;	7700;occ;	63;	0;	36192
24;	6963.8;	31-JAN-2009	12:54:25;	Dark	;	31.0;	46;	Del Vel	;	1.95;	10600;occ;	62;	0;	36192
25;	7115.0;	31-JAN-2009	12:56:56;	Dark	;	30.5;	34;	Gam2Vel	;	1.79;	23000;occ;	61;	0;	36192
26;	7240.2;	31-JAN-2009	12:59:01;	Dark	;	31.0;	70;	Zet Pup	;	2.25;	39000;occ;	62;	0;	36192
27;	7447.5;	31-JAN-2009	13:02:29;	Dark	;	29.5;	88;	31Eta CMa	;	2.45;	20000;occ;	59;	0;	36192